## —ALFAGOMMA

## Industrial Rubber Hoses by Kuriyama



Nuriyama of America, Inc.

## $\mathrm{sO}_{3}+1$

## RALEAGOMTMA

## Establishing a Legacy

Throughout the world, the name Alfagomma is synonymous with quality, a reputation based on first class hose products, a commitment to research and development and ongoing capital investment. Alfagomma's development and product engineering continues to produce fluid transfer and material handling product innovations that assure excellent performance and cost savings for customers.

Alfagomma rubber hoses are manufactured in their facility located in Teramo, Italy. This factory has earned registration under ISO 9001, a quality assurance model against which a plant's quality systems are audited. The standard represents an international consensus on good management practices, and sets out the requirements for an organization whose business processes range all the way from design and development to production. This commitment to quality is the primary reason behind Alfagomma's 60-years of success.


Alfagomma headquarters-Vimercate, Italy


Alfagomma Rubber Industrial Hose Manufacturing facility-Teramo, Italy

## Kuriyama of America, Inc.

Kuriyama of America, Inc. - North American headquarters and main warehouse (shown below), is located at 360 East State Parkway, Schaumburg, IL. Kuriyama is the exclusive U.S. distributor of Industrial Rubber Hose products manufactured by ALFAGOMMA S.p.A. KOA also has four additional warehouses throughout the U.S., where Alfagomma hose products are stocked.


## HALEAGOMMA

## ALFAGOMMA ${ }^{\oplus}$ Industrial Rubber Hose Index by Series Number

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| 6C5AA NEW | 54 | T352AA | 22-23 | T631AE NEW | 62 |
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| HWT763AA NEW | 72 | T405LL | 28 | T653AA | 46-47 |
| LT753AA | 64 | T410LB NEW | 31 | T6D1AA | 48 |
| ST6D2AA | 49 | T410LL | 30 | T704HA NEW | 63 |
| T140AK | 10 | T422LH NEW | 32 | T714LG NEW | 38 |
| T142AK | 11 | T426LB NEW | 33 | T720AA | 66 |
| T146AK | 74 | T452LE | 35 | T720LG | 37 |
| T155AK | 12 | T455LL | 34 | T737AA | 68 |
| T202AA | 16 | T505OG | 40 | T740AA | 67 |
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| T253AA | 18 | T5190E NEW | 42 | T750AG | 65 |
| T254AA | 19 | T600AA | 44-45 | T757AA | 68 |
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| T343AH NEW | 27 | T606AE | 56 | T763AA | 71 |
| T350LH | 20 | T614AA | 60 | T766AA | 73 |
| T350LL | 20 | T620AA | 57 | T902AA | 13 |
| T351LG | 21 | T629AA | 58 | T903LE | 14 |
| T351LL | 21 | T631AA | 61 | T957LL | 75 |


| CODE LEGEND FOR AVAILABLE COLORS <br> (Refers to last two letters of the Series number.) |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathrm{A}=\mathrm{BLACK}$ | $\mathrm{D}=$ WINE RED | $\mathrm{G}=\mathrm{GREEN}$ | $\mathrm{J}=\mathrm{TAN}$ | $\mathrm{M}=\mathrm{SILVER}$ |
| $\mathrm{B}=\mathrm{GREY}$ | $\mathrm{E}=$ BLUE | $\mathrm{H}=$ RED | $\mathrm{K}=$ YELLOW | $\mathrm{O}=$ TRANSLUCENT |
|  | $\mathrm{F}=$ PURPLE | $\mathrm{I}=$ ORANGE | $\mathrm{L}=$ WHITE |  |

Note: The second to last letter refers to the hose tube color and the last letter refers to the hose cover color.
Alfagomma ${ }^{\circledR}$ hoses are produced using silicone free release agents.
Please call your local Kuriyama Warehouse for availability of products/sizes shown.
NOTE: Although every effort has been made to accurately show the color of the ALFAGOMMA hoses in the catalog, because of the limitation of four-color process printing, some of the colors shown herein may not be exact.

[^0]
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## 国ALEAGOVINAA

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T601AA
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1. Kuriyama of America, Inc. disclaims any liability for use of its products in applications other than those for which they were designed.
2. Weights and dimensions are nominal.
3. Pictures shown are for illustration purposes only. Actual hose construction may vary.

## Application Guide

因ALFAGOMTVA
## Chemical Application Guide

| PRODUCT | PAGE | AGRICULTUPAL FERTILIZERS | CHEMICAL SOLUTIONS | CHEMICAL/SOLVENT TRANSFER |
| :---: | :---: | :---: | :---: | :---: |
| T5050G | 40 | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T5090E | 41 | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T5190E | 42 | $\checkmark$ | $\checkmark$ | $\checkmark$ |

* Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.


## Compressed Air Application Guide

| PRODUCT | PAGE | CONSTRUCTION AIR SERVICE | HEAVY DUTY | $\begin{aligned} & \text { HIGH } \\ & \text { HEAT } \end{aligned}$ | $\begin{gathered} \text { HIGH } \\ \text { PRESSURE AIR } \\ \hline \end{gathered}$ | HOT AIR BLOWER HOSE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T140AK | 10 | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
| T142AK | 11 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| T155AK | 12 | $\checkmark$ |  |  |  |  |
| T902AA | 13 |  |  | $\checkmark$ |  | $\checkmark$ |
| T903LE | 14 |  |  | $\checkmark$ |  | $\checkmark$ |

* Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.


## Food Transfer Application Guide - FDA Liquid

| PRODUCT | PAGE | ABRASIVE MATERIAL SUCTION \& DISCHARGE, WET/DRY | DRY BULK FOOD DISCHARGE | FDA | 3A | ALCOHOLIC BEVERAGE DISCHARGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T405LB | 29 |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T405LL | 28 |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T410LB | 31 |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T410LL | 30 |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T422LH | 32 |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T426LB | 33 |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| T452LE | 35 |  |  | $\checkmark$ |  |  |
| T455LL | 34 |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |

* Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.


## Food Transfer Application Guide - FDA Material Handling

| PRODUCT | PAGE | ABRASIVE MATERIAL SUCTION \& DISCHARGE, WET/DRY | DRY BULK FOOD DISCHARGE | FDA | 3A | ALCOHOLIC BEVERAGE DISCHARGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T714LG | 38 | $\checkmark$ |  | $\checkmark$ |  |  |
| T720LG | 37 | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |
| T760LE | 39 |  | $\checkmark$ | $\checkmark$ |  |  |

* Working Pressure and vacuum ratings are based at ambient temperature of $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$.

Material Handling Application Guide - Non FDA

| PRODUCT | PAGE | ABRASIVE MATERIAL TRANSFER, WET/DRY | ABRASIVE SLURRY TRANSFER | CEMENT, WET PUMPING | CONCRETE PUMPING | $\begin{gathered} \text { DRY BULK FOOD } \\ \text { DISCHARGE } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HWT763AA | 72 | $\checkmark$ | $\checkmark$ |  |  |  |
| LT753AA | 64 |  |  |  |  |  |
| T704HA | 63 | $\checkmark$ |  |  |  |  |
| T720AA | 66 | $\checkmark$ | $\checkmark$ |  |  |  |
| T737AA | 68 |  |  | $\checkmark$ | $\checkmark$ |  |
| T740AA | 67 |  |  | $\checkmark$ | $\checkmark$ |  |
| T750AA | 65 |  |  |  |  |  |
| T750AG | 65 |  |  |  |  |  |
| T757AA | 68 |  |  | $\checkmark$ | $\checkmark$ |  |
| T758AA | 69 |  |  | $\checkmark$ | $\checkmark$ |  |
| T758AE | 69 |  |  | $\checkmark$ | $\checkmark$ |  |
| T760AA | 70 | $\checkmark$ |  |  |  |  |
| T763AA | 71 | $\checkmark$ | $\checkmark$ |  |  |  |
| T766AA | 73 | $\checkmark$ | $\checkmark$ |  |  |  |

[^1]
## HALEAGOXTMA <br> Application Guide

| TUBE COMPOUND | PSI RATING | 4 + 4 SP | TEMP | VACUUM HG (IN) |
| :---: | :---: | :---: | :---: | :---: |
| XLPE | 240 | $\checkmark$ | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
| UHMWPE | 240 | $\checkmark$ | $-22^{\circ} \mathrm{F}$ TO $200^{\circ} \mathrm{F}$ | $\checkmark$ |
| UHMWPE | 240 |  | $-22^{\circ} \mathrm{F}$ TO $200^{\circ} \mathrm{F}$ | $\checkmark$ |


| MINES / QUARRIES | $\begin{gathered} \text { OIL } \\ \text { RESISTANT } \\ \hline \end{gathered}$ | FDA | $\begin{gathered} \text { PSI } \\ \text { RATING } \\ \hline \end{gathered}$ | STEEL BRAIDED WIRE | TEMP | $\begin{aligned} & \hline \text { VACUUM } \\ & \text { HG (IN) } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ | See Catalog |  |  | $\checkmark$ | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
| $\checkmark$ | $\checkmark$ |  | 600 | $\checkmark$ | $-40^{\circ} \mathrm{F}$ TO $242^{\circ} \mathrm{F}$ |  |
| $\checkmark$ |  |  | 300 |  | -22 ${ }^{\circ} \mathrm{F}$ TO 176 ${ }^{\circ} \mathrm{F}$ |  |
|  |  |  | 150 |  | $-40^{\circ} \mathrm{FTO} 350^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  | $\checkmark$ | 150 |  | $-40^{\circ} \mathrm{FTO} 350^{\circ} \mathrm{F}$ | $\checkmark$ |


| $\begin{gathered} \text { ALCOHOLIC } \\ \text { BEVERAGE \& \& D } \\ \hline \end{gathered}$ | OIL BASED FOOD SUCTION \& DISCHARGE | $\begin{gathered} \text { OIL BASED FOOD } \\ \text { DISCHARGE } \\ \hline \end{gathered}$ | POTABLE WATER | PSI RATING CONSTANT | TEMP | $\begin{aligned} & \text { VACUUM } \\ & \text { HG (IN) } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ | $\checkmark$ | $\checkmark$ |  | 150 | $-22^{\circ} \mathrm{F}$ TO $212^{\circ} \mathrm{F}$ | $\checkmark$ |
| $\checkmark$ | $\checkmark$ | $\checkmark$ |  | 150 | $-22^{\circ} \mathrm{F}$ TO $212^{\circ} \mathrm{F}$ | $\checkmark$ |
| $\checkmark$ |  |  |  | 240 | $-22^{\circ} \mathrm{F}$ TO $226^{\circ} \mathrm{F}$ | $\checkmark$ |
| $\checkmark$ |  |  |  | 240 | $-22^{\circ} \mathrm{F}$ TO $226^{\circ} \mathrm{F}$ | $\checkmark$ |
| $\checkmark$ |  |  |  | 150 | $-22^{\circ} \mathrm{F}$ TO $226^{\circ} \mathrm{F}$ |  |
| $\checkmark$ | $\checkmark$ |  |  | 150 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  | $\checkmark$ | 150 | $-22^{\circ} \mathrm{F}$ TO 176 ${ }^{\circ} \mathrm{F}$ |  |
|  |  | $\checkmark$ |  | 150 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |


| $\begin{aligned} & \text { ALCOHOLIC } \\ & \text { BEVERAGE \& D D } \end{aligned}$ | OIL BASED FOOD SUCTION \& DISCHARGE | $\begin{gathered} \text { OIL BASED FOOD } \\ \text { DISCHARGE } \\ \hline \end{gathered}$ | POTABLE WATER | $\begin{aligned} & \text { PSI RATING } \\ & \text { CONSTANT } \\ & \hline \end{aligned}$ | TEMP | $\begin{aligned} & \text { VACUUM } \\ & \text { HG (N) } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 75 | $-22^{\circ} \mathrm{FTO} 176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  | See Catalog | $-22^{\circ} \mathrm{FTO} 176^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  | 75 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |


| DRY POWDER DELIVERY, CEMENT/SAND | GROUT | PLASTER | SHOT \& SAND BLAST, DRY ABRASIVE DELIVERY | $\begin{gathered} \text { PSI } \\ \text { RATING } \end{gathered}$ | TEMP | $\begin{aligned} & \hline \text { VACUUM } \\ & \text { HG (IN) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 75 | $-22^{\circ} \mathrm{F}$ T0 $176{ }^{\circ} \mathrm{F}$ |  |
| $\checkmark$ |  |  |  | See Catalog | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  | 150 | $-40^{\circ} \mathrm{F}$ TO $212^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  | See Catalog | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
|  |  |  |  | 600 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
|  |  |  | $\checkmark$ | 150 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
|  |  |  | $\checkmark$ | 150 | $-22^{\circ} \mathrm{FTO} 176{ }^{\circ} \mathrm{F}$ |  |
|  | $\checkmark$ | $\checkmark$ |  | 600 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
|  | $\checkmark$ | $\checkmark$ |  | 800 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
|  | $\checkmark$ | $\checkmark$ |  | 800 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
| $\checkmark$ |  |  |  | 75 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
| $\checkmark$ |  |  |  | 75 | $-22^{\circ} \mathrm{F}$ T0 $176{ }^{\circ} \mathrm{F}$ |  |
| $\checkmark$ |  |  |  | 150 | $-22^{\circ} \mathrm{FTO} 176{ }^{\circ} \mathrm{F}$ |  |
| $\checkmark$ |  |  |  | 75 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |

## Application Guide

 HALEAGOMTMA
## Petroleum Application Guide

| PRODUCT | PAGE | AROMATIC CONTENT | $\begin{aligned} & \text { BILGE } \\ & \text { PUMP } \end{aligned}$ | BIOFUELS (UP TO E98 AND B100) | CORRUGATED COVER | FUEL / OIL SUCTION \& DISCHARGE | HOT TAR \& ASPHALT SUCTION \& DISCHARGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6C5AA | 54 | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |
| CT601AA | 50 | $\checkmark$ |  |  | $\checkmark$ |  |  |
| ST6D2AA | 49 |  |  |  |  |  |  |
| T6D1AA | 48 |  |  |  |  |  |  |
| T600AA | 44-45 |  |  |  |  |  |  |
| T601AA | 51 | $\checkmark$ |  |  |  |  |  |
| T604AA | 52 |  |  |  |  |  |  |
| T605AA | 53 | $\checkmark$ |  |  |  | $\checkmark$ |  |
| T605AH | 55 | $\checkmark$ |  |  |  | $\checkmark$ |  |
| T606AE | 56 | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |
| T614AA | 60 |  |  |  |  |  | $\checkmark$ |
| T620AA | 57 | $\checkmark$ |  |  |  | $\checkmark$ |  |
| T629AA | 58 | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  |
| T631AA | 61 |  |  |  |  |  | $\checkmark$ |
| T631AE | 62 |  |  |  |  |  |  |
| T650AH | 59 |  |  |  |  |  |  |
| T653AA | 46-47 |  | $\checkmark$ |  |  |  |  |

* Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.

Specialty Hoses Application Guide

| PRODUCT | PAGE | FURNAGE DOOR <br> COOLANT | MSHA UNDERGROUND <br> MINE COMPLIANT |
| :---: | :---: | :---: | :---: |
| T146AK | 74 |  | $\boldsymbol{V}$ |
| T957LL | 75 | $\boldsymbol{v}$ |  |

* Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.

Steam \& Hot Water Application Guide

| PRODUCT | PAGE | STEAM CLEANER USE/ DETERGENTS OR OIL | HIGH TENSILE STEEL CORD REINFORCEMENT | RADIATOR | $\begin{gathered} \text { HOT } \\ \text { WATER } \end{gathered}$ | PIN-PRICKED COVER | PSI RATING CONSTANT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T340AA | 25 | NO | $\checkmark$ |  |  | $\checkmark$ | 270 |
| T340AH | 25 | NO | $\checkmark$ |  |  | $\checkmark$ | 270 |
| T341AA | 26 | NO | $\checkmark$ |  |  | $\checkmark$ | 270 |
| T341AH | 26 | NO | $\checkmark$ |  |  | $\checkmark$ | 270 |
| T343AH | 27 | NO | $\checkmark$ |  |  | $\checkmark$ | 270 |
| T350LH | 20 | NO |  |  | $\checkmark$ |  | See Page 20 |
| T350LL | 20 | NO |  |  | $\checkmark$ |  | See Page 20 |
| T351LL | 21 | NO |  |  | $\checkmark$ |  | 150 |
| T351LG | 21 | NO |  |  | $\checkmark$ |  | 150 |
| T352AA | 22-23 | NO |  | $\checkmark$ | $\checkmark$ |  | 75 |

* Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.

Water Suction And Discharge Application Guide

| PRODUCT | PAGE | AGRICULTURAL <br> FERTILIZERS | CHEMICAL <br> SOLUTIONS | CONSTRUCTION | HEAVY <br> DUTY | HIGH <br> T202AA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T204AA | 16 |  |  | $\checkmark$ |  |  |
| T253AA | 17 |  |  | $\checkmark$ |  |  |
| T254AA | 18 |  |  | $\checkmark$ |  |  |

[^2]
## HaLEAGOMTAS <br> Application Guide

| HYDRAULIC SUCTION / RETURN | MARINE EXHAUST / FUEL FILL | $\begin{aligned} & \text { OIL FIELD / FRAGK } \\ & \text { DISCHARGE } \end{aligned}$ | OIL FIELD / FRACK TANK SUCTION | PETROLEUM DISCHARGE | PETROLEUM SUCTION / DISCHARGE | PSI | TEMP | vacuum HG (IN) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\checkmark$ |  |  | 150 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  | $\checkmark$ |  |  | 150 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  | $\checkmark$ |  |  |  | 400 | $-22^{\circ} \mathrm{F}$ TO 176 ${ }^{\circ} \mathrm{F}$ |  |
|  |  | $\checkmark$ |  |  |  | 400 | $-22^{\circ} \mathrm{F}$ TO 176 ${ }^{\circ} \mathrm{F}$ |  |
|  | $\checkmark$ |  |  |  |  | 75 | - $4^{\circ} \mathrm{F}$ TO $212^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  | $\checkmark$ |  |  | 150 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
| $\checkmark$ |  |  |  |  |  | See Catalog | $-40^{\circ} \mathrm{F}$ TO $212^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  |  | $\checkmark$ | 150 | $-22^{\circ} \mathrm{F}$ T0 $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  |  | $\checkmark$ | 150 | $-22^{\circ} \mathrm{F}$ T0 176 ${ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  |  | $\checkmark$ | 150 | -65 ${ }^{\circ} \mathrm{F}$ TO $180^{\circ} \mathrm{F}$ |  |
|  |  |  |  |  |  | 150 | $-4^{\circ} \mathrm{FTO} 356^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  |  | $\checkmark$ | 300 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  |  | $\checkmark$ | 150 | $-22^{\circ} \mathrm{F}$ TO 176 ${ }^{\circ} \mathrm{F}$ | $\checkmark$ |
|  |  |  |  |  |  | 300 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
|  |  |  |  | $\checkmark$ |  | 300 | $-22^{\circ} \mathrm{F}$ TO $356^{\circ} \mathrm{F}$ |  |
|  |  |  |  | $\checkmark$ |  | 150 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
|  |  |  |  |  |  | 75 | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |


| PIN-PRICKED | PSI RATING | TEMP |
| :---: | :---: | :---: |
| $\boldsymbol{\iota}$ | 1000 | $-22^{\circ} \mathrm{F}$ to $200^{\circ} \mathrm{F}$ |
|  | 300 | Tube: $-40^{\circ} \mathrm{F}$ to $248^{\circ} \mathrm{F}$ Cover: $-40^{\circ} \mathrm{F}$ to $1000^{\circ} \mathrm{F}$ |


| SATURATED STEAM | SHIPYARDS \& CHEMICAL PLANTS | REFINERY | SUPERHEATED STEAM | PAPER MILL WASH DOWN | FOOD \& DAIRY WASHDOWN | TAPPERED NOZZLE | TEMP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ |  |  |  |  |  |  | $-40^{\circ} \mathrm{FTO} 430^{\circ} \mathrm{F}$ |
| $\checkmark$ |  |  |  |  |  |  | $-40^{\circ} \mathrm{FTO} 430^{\circ} \mathrm{F}$ |
| $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  | -40 ${ }^{\circ} \mathrm{FTO} 430^{\circ} \mathrm{F}$ |
| $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  | -40 ${ }^{\circ} \mathrm{FTO} 430^{\circ} \mathrm{F}$ |
| $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  | -40 ${ }^{\circ} \mathrm{FTO} 430^{\circ} \mathrm{F}$ |
|  |  |  |  | $\checkmark$ | $\checkmark$ |  | See Page 20 |
| $\checkmark$ |  |  |  | $\checkmark$ | $\checkmark$ |  | See Page 20 |
|  |  |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | -40 ${ }^{\circ} \mathrm{FTO} 248^{\circ} \mathrm{F}$ |
|  |  |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | -40 ${ }^{\circ} \mathrm{FTO} 248^{\circ} \mathrm{F}$ |
|  |  |  |  |  |  |  | $-40^{\circ} \mathrm{FTO} 248^{\circ} \mathrm{F}$ |


| IRRIGATION | LAYFLAT | MAX. REC. WP (PSI) | STEEL HELIX | WATER DISCHARGE | WATER SUCTION | TEMP | $\begin{aligned} & \text { VACUUM } \\ & \text { HG (IN) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ |  | 150 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
| $\checkmark$ |  | 75 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ | $\checkmark$ |
| $\checkmark$ | $\checkmark$ | 150 |  | $\checkmark$ |  | $-22^{\circ} \mathrm{F}$ TO $176{ }^{\circ} \mathrm{F}$ |  |
| $\checkmark$ |  | 150 |  | $\checkmark$ |  | $-40^{\circ} \mathrm{F}$ TO $248^{\circ} \mathrm{F}$ |  |

# Compressed Air 

## ⒶLFAGOMMA

## plastǐs <br> manufacturing solutions

## T140AK <br> Braided Steel Wire Air Hose

## Applications:

High pressure air hose for heavy-duty use in mines, quarries, construction and industry.

## Cover:

Yellow SBR - abrasion and ozone resistant - pin pricked.
Reinforcement:
High tensile steel wire braids.

## Tube:

Black Extruded SBR - resistant to oil mist.

## Working Pressure: <br> Constant Pressure -

40 Bar (600 PSI): 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" 30 Bar (450 PSI): 2 1/2", 3", 4"
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY - T140 STEEL AIR (embossed)
Standard Length:
50 or 100 feet

| Nominal Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Min. Bending Radius (in. @ $68^{\circ}$ F) | $\begin{gathered} \text { Weight } \\ \text { (lbs./ft.) } \end{gathered}$ |
| T140AK050 | 1/2 | 13 | 0.87 | 22 | 600 | $21 / 2$ | 0.28 |
| T140AK075 | 3/4 | 19 | 1.10 | 28 | 600 | 4 | 0.37 |
| T140AK100 | 1 | 25 | 1.34 | 34 | 600 | 5 | 0.47 |
| T140AK125 | 11/4 | 32 | 1.65 | 42 | 600 | $61 / 2$ | 0.72 |
| T140AK150 | 11/2 | 38 | 1.89 | 48 | 600 | $71 / 2$ | 0.86 |
| T140AK200 | 2 | 51 | 2.52 | 64 | 600 | 10 | 1.34 |
| T140AK250 | $21 / 2$ | 63 | 3.03 | 77 | 450 | $121 / 2$ | 1.64 |
| T140AK300 | 3 | 76 | 3.54 | 90 | 450 | 15 | 1.95 |
| T140AK400 | 4 | 102 | 4.65 | 118 | 450 | 20 | 2.75 |

## COUPLING SUGGESTIONS

Steel or malleable iron male insert NPT, female ground joint or washer type with spud, or universal quick-acting couplings attached with 2 or 4 bolt interlocking clamps or bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{TM}}$ and Accessories Catalog for type and pricing.


## $\triangle A L F A G O M M A{ }^{\oplus}$ <br> Compressed Air



## T142AK

High Temperature - Oil Resistant Steel Braided Reinforced Air Hose

## Applications:

High pressure air for mines and quarries. Designed for long lasting service and maximum safety in heavy duty applications where resistance to oil is required.
Cover:
Yellow SBR/NBR - abrasion, ozone, hydrocarbon and flame resistant - pin pricked.

## Reinforcement:

High tensile steel wire braids.

## Tube:

Black Extruded NBR (RMA Class A) - oil mist resistant.

Working Pressure:
40 Bar (600 PSI) 2"
30 Bar (450 PSI) 2 1/2", 3"
Temperature Range:
$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $248^{\circ} \mathrm{F}\left(+120^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T142 HIGH TEMP STEEL AIR OIL RESISTANT (embossed)
Standard Lengths:
100 feet: 2" through 3"
50 feet: $2^{\prime \prime}$ and $3^{\prime \prime}$

| Nominal Specifications |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Min. Bending Radius <br> (in. @ 68 ${ }^{\circ}$ F) | Weight <br> (lbs./ft.) |
| T142AK200 | 2 | 51 | 2.52 | 64 | 600 | 10 | 1.16 |
| T142AK250 | $21 / 2$ | 63 | 3.03 | 77 | 450 | $121 / 2$ | 1.93 |
| T142AK300 | 3 | 76 | 3.54 | 90 | 450 | 15 | 1.91 |

## COUPLING SUGGESTIONS

Steel or malleable iron male insert NPT, female ground joint or washer type with spud, or universal quick-acting couplings attached with 2 or 4 bolt interlocking clamps or bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {™ }}$ and Accessories Catalog for type and pricing.


## Compressed Air

## ⒶLFAGOMMA

## T155AK 300 PSI Textile Cord "Air Drill" Hose

## Applications:

High quality air hose for mining and construction service.

## Cover:

Yellow SBR - abrasion and ozone-resistant.
Reinforcement:
Spiraled, high tensile textile cords.
Tube:
Black SBR/NBR blend - oil mist resistant.

## Working Pressure:

Constant Pressure - 20 Bar (300 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY - T155 20 BAR (300 PSI) AIR (in blue letters)

## Standard Length:

100 feet: 1/2" through 4"
50 feet: 1/2", 1" and 2" through 4"

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T155AK050 | $1 / 2$ | 13 | 0.83 | 21 | 300 | 0.22 |
| T155AK075 | $3 / 4$ | 19 | 1.14 | 29 | 300 | 0.38 |
| T155AK100 | 1 | 25 | 1.38 | 35 | 300 | 0.48 |
| T155AK125 | $11 / 4$ | 32 | 1.73 | 44 | 300 | 0.60 |
| T155AK150 | $11 / 2$ | 38 | 1.97 | 50 | 300 | 0.70 |
| T155AK200 | 2 | 51 | 2.56 | 65 | 300 | 1.12 |
| T155AK250 | $21 / 2$ | 63 | 3.11 | 79 | 300 | 1.55 |
| T155AK300 | 3 | 76 | 3.62 | 92 | 300 | 1.89 |
| T155AK400 | 4 | 102 | 4.65 | 118 | 300 | 2.47 |

## COUPLING SUGGESTIONS

Steel or malleable iron male insert NPT, female ground joint or washer type with spud, attached with 2 or 4 bolt interlocking clamps or bands.
Universal couplings may be used on sizes (1/2" - 2")

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {TM }}$ and Accessories Catalog for type and pricing.


## $\triangle A L F A G O M M A A^{\circ}$ <br> Compressed Air



## Applications:

Hot air transfer between the air compressor and dry bulk tank on bulk material carriers.

## Cover:

Black EPDM - heat, abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords with flexible steel helix wire.

## Tube:

Black EPDM - heat-resistant.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $356^{\circ} \mathrm{F}\left(+180^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T902 10 BAR (150 PSI) - HOT AIR SERVICE (in white letters)

## Standard Length:

100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \mathrm{ID} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. <br> WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. © $68^{\circ} \mathrm{F}$ ) | Weight (lbs./ft.) |
| T902AA200 | 2 | 51 | 2.48 | 63 | 150 | 30 | 6 | 1.01 |
| T902AA300 | 3 | 76 | 3.54 | 90 | 150 | 27 | 9 | 1.60 |
| T902AA400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 12 | 2.23 |

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


# Compressed Air 

## ⒶLFAGOMMA

## T903LE 150 PSI High Quality FDA Hot Air Blower Hose

## Applications:

Hot air transfer between the air compressor and dry bulk tank on bulk material carriers.

## Cover:

Blue EPDM - heat, abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords with flexible steel helix wire.

## Tube:

White EPDM - heat-resistant. Meets FDA requirements.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $356^{\circ} \mathrm{F}\left(+180^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T903 10 BAR (150 PSI) - HOT AIR SERVICE - FDA (in white letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \mathrm{OD} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius $\text { (in. @ } 68^{\circ} \mathrm{F} \text { ) }$ | Weight <br> (lbs./ft.) |
| T903LE300 | 3 | 76 | 3.54 | 90 | 150 | 27 | 9 | 1.65 |
| T903LE400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 12 | 2.26 |

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


## $\triangle A L F A G O M M A{ }^{\circ}$

## Water Suction

## HALEAGOMMA

# plastiKs <br> manufacturing solutions 

# T202AA 150 PSI EPDM General Purpose Water S \& D Hose 

FOR APPLICATIONS INVOLVING INDUSTRIAL ACID CHEMICALS AND ALCOHOLS, PLEASE REFER TO T505OG AND T5090E CHEMICAL HOSES

## Applications:

Suction and discharge of non-corrosive liquids for irrigation, construction, fertilizers and lasso acid solutions.

## Cover:

Black EPDM - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords with flexible steel helix wire.

## Tube:

Black EPDM.


## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $212^{\circ} \mathrm{F}\left(+100^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY - T202 10 BAR (150 PSI)
GENERAL PURPOSE EPDM (in green letters)
Standard Length:
100 feet: 1 " through 6"
20, 50 feet: $5^{\prime \prime}$
20, 25 feet: 8 "
20, 25, 50 feet: $6{ }^{\prime \prime}$

| Series | $\begin{gathered} \hline \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{ID} \\ (\mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | Weight (lbs./ft.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T202AA100 | 1 | 25 | 1.38 | 35 | 150 | 30 | 4 | 0.47 |
| T202AA125 | 11/4 | 32 | 1.65 | 42 | 150 | 30 | 5 | 0.56 |
| T202AA150 | $11 / 2$ | 38 | 1.89 | 48 | 150 | 30 | 6 | 0.64 |
| T202AA200 | 2 | 51 | 2.40 | 61 | 150 | 30 | 8 | 0.84 |
| T202AA250 | $21 / 2$ | 63 | 2.95 | 75 | 150 | 27 | 10 | 1.20 |
| T202AA300 | 3 | 76 | 3.46 | 88 | 150 | 27 | 12 | 1.44 |
| T202AA350 | $31 / 2$ | 90 | 4.02 | 102 | 150 | 27 | 14 | 1.82 |
| T202AA400 | 4 | 102 | 4.49 | 114 | 150 | 27 | 16 | 2.03 |
| T202AA500 | 5 | 127 | 5.55 | 141 | 150 | 24 | 25 | 3.18 |
| T202AA600 | 6 | 152 | 6.54 | 166 | 150 | 24 | 30 | 4.01 |
| T202AA800 | 8 | 203 | 8.70 | 221 | 150 | 21 | 40 | 6.59 |
| T202AA1000 | 10 | 254 | 10.71 | 272 | 150 | 18 | 50 | 9.03 |
| T202AA1200 | 12 | 305 | 12.87 | 327 | 150 | 18 | 61 | 12.54 |

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.


## ATALEAGOXTMA <br> Water Suction

## plastiks

## T204AA 75 PSI SBR Water S \& D Hose

## Applications:

Suction and discharge of water for irrigation and construction.

## Cover:

Black SBR - ozone and abrasion-resistant.

## Reinforcement:

Spiraled high tensile textile cords with flexible steel helix wire.

## Tube:

Black SBR

## Working Pressure:

Constant Pressure - 5 Bar (75 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA- ITALY - T204 (embossed)

## Standard Length:

20, 25, 50, 100 feet: 6 "
20, 25, feet: 8"

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{ID} \\ (\mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline \mathbf{O D} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. © 68 ${ }^{\circ} \mathrm{F}$ ) | Weight (lbs./ft.) |
| T204AA600 | 6 | 152 | 6.54 | 166 | 75 | 24 | 30 | 4.13 |
| T204AA800 | 8 | 203 | 8.70 | 221 | 75 | 21 | 40 | 7.06 |

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {™ }}$ and Accessories Catalog for type and pricing.


## Water Discharge

## HALEAGOMMA

# plastiKs <br> manufacturing solutions 

## T253AA <br> 150 PSI EPDM Layflat Water Discharge Hose

FOR APPLICATIONS INVOLVING INDUSTRIAL ACID CHEMICALS AND ALCOHOLS, PLEASE REFER TO T505OG AND T5090E CHEMICAL HOSES

## Applications:

High pressure, 150 PSI lay flat type hose for general industrial construction and irrigation.

## Cover:

Black EPDM - abrasion and ozone-resistant.

## Reinforcement:

High tensile textile cords.

## Tube:

Black EPDM.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)

## Temperature Range:

$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY - T253 10 BAR (150 PSI) EPDM WATER DISCHARGE (in green letters)

## Standard Length:

100 feet: $11 / 2^{\prime \prime}$ through 10"
50 feet: 6", 6 5/8", 8", 10" \& 12"

* 65/8" referred to as Elephant Trunk Hose - Ideal for "Irrigation Boots."

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> $(\mathrm{in}.)$. | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./tt.) |
| T253AA150 | $11 / 2$ | 38 | 1.81 | 46 | 150 | 0.37 |
| T253AA200 | 2 | 51 | 2.32 | 59 | 150 | 0.50 |
| T253AA250 | $21 / 2$ | 63 | 2.80 | 71 | 150 | 0.60 |
| T253AA300 | 3 | 76 | 3.31 | 84 | 150 | 0.86 |
| T253AA400 | 4 | 102 | 4.33 | 110 | 150 | 1.19 |
| T253AA600 | 6 | 152 | 6.38 | 162 | 150 | 2.00 |
| T253AA662 | $65 / 8$ | 168 | 7.01 | 178 | 150 | 2.17 |
| T253AA800 | 8 | 203 | 8.46 | 215 | 150 | 2.82 |
| T253AA1000 | 10 | 254 | 10.63 | 270 | 150 | 5.11 |
| T253AA1200 | 12 | 305 | 12.56 | 319 | 150 | 5.93 |

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.


## HALEAGOKTMA <br> Water Discharge

# plastiKs <br> manufacturing solutions 

## T254AA <br> 150 PSI SBR Water Discharge Hose

## Applications:

Water discharge hose for construction and irrigation.

## Cover:

Black SBR - abrasion and ozone-resistant.

## Reinforcement:

High tensile textile cords.
Tube:
Black SBR

Working Pressure:
Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Standard Length:

100 feet: 1 1/2" through 8"
50 feet: 8"

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> $(\mathrm{in})$. | ID <br> $(\mathbf{m m})$ | OD <br> $(\mathbf{i n .})$ | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T254AA150 | $11 / 2$ | 38 | 1.89 | 48 | 150 | 0.66 |
| T254AA200 | 2 | 51 | 2.40 | 61 | 150 | 0.87 |
| T254AA300 | 3 | 76 | 3.46 | 88 | 150 | 1.54 |
| T254AA400 | 4 | 102 | 4.49 | 114 | 150 | 2.08 |
| T254AA600 | 6 | 152 | 6.54 | 166 | 150 | 3.13 |
| T254AA800 | 8 | 203 | 8.62 | 219 | 150 | 4.64 |

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{TM}}$ and Accessories Catalog for type and pricing.


## Hot Water

## 因ALFAGONTHA

# olasti/s <br> manufacturing solutions 

 T350LL / T350LH 225 PSI Premium Paper Mill/Creamery Wash Down Hose - No Nozzle

## Applications:

For general wash down service, using hot water or low pressure saturated steam in processing plants and facilities and in food and dairy plants.

## Cover:

Red EPDM - heat, abrasion and ozone resistant.
White EPDM - heat, abrasion and ozone resistant.

## Reinforcement:

High tensile textile cords.

## Tube:

White EPDM. Meets FDA and $3 \mathrm{~A}(18-03)$ requirements.

## Working Pressure:

Constant Pressure - 15 Bar (225 PSI)
Steam Pressure:
Constant Pressure - 6 Bar (90 PSI)

## Temperature Range:

Water $-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $248^{\circ} \mathrm{F}\left(+120^{\circ} \mathrm{C}\right)$
Steam $330^{\circ} \mathrm{F}$ to $\left(+165^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY - T350 6 BAR (90 PSI) STEAM 15 BAR (225 PSI) HOT WATER (embossed)
Standard Length:
200 feet - eliminates bulky hookups
*T350 fully complies with the requirements listed in FDA CFR21.

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> $(\mathbf{i n .})$ | ID <br> $(\mathbf{m m})$ | OD <br> $(\mathbf{i n . )}$ | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T350LL050 | $1 / 2$ | 13 | 0.91 | 23 | 225 | 0.27 |
| T350LL062 | $5 / 8$ | 16 | 1.02 | 26 | 225 | 0.31 |
| T350LL075 | $3 / 4$ | 19 | 1.22 | 31 | 225 | 0.44 |
| T350LL100 | 1 | 25 | 1.46 | 37 | 225 | 0.54 |
| T350LL125 | $11 / 4$ | 32 | 1.81 | 46 | 225 | 0.63 |
| T350LL150 | $11 / 2$ | 38 | 2.05 | 52 | 225 | 0.74 |
| T350LL200 | 2 | 51 | 2.64 | 67 | 225 | 1.12 |
| T350LH075 | $3 / 4$ | 19 | 1.22 | 31 | 225 | 0.44 |
| T350LH100 | 1 | 25 | 1.46 | 37 | 225 | 0.54 |

## COUPLING SUGGESTIONS

Short shank, long shank couplings (NPT, GHT), barbed inserts attached with bands.

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## Hot Water



## T351LL / T351LG

T351LL
White
Cover
T351LG
Green
Cover

## 150 PSI Premium Paper Mill/Creamery Wash Down Hose With Tapered Nozzle <br> COMPLIANT MATERIAL

## Applications:

For general wash down service, using hot and cold water in paper mills and in food and dairy plants.

## Cover:

White or green EPDM - heat, abrasion and ozone resistant.

## Reinforcement:

High tensile textile cords.
Tube:
White EPDM. Meets FDA and 3A (18-03) requirements.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)

## Temperature Range:

$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $248^{\circ} \mathrm{F}\left(+120^{\circ} \mathrm{C}\right)$

## Standard Length:

50 feet including $6^{\prime \prime}$ long built-in tapered nozzle*
*Tapered Nozzle Hole Size
3/4" and 1" ID
3/8"
1 1/4" ID...............................1/2"
1 1/2" ID ............................. $5 / 8^{\prime \prime}$
*T351 fully complies with the requirements listed in FDA CFR21.

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> (mm) | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T351LL/LG075 | $3 / 4$ | 19 | 1.22 | 31 | 150 | 0.44 |
| T351LLLLG100 | 1 | 25 | 1.46 | 37 | 150 | 0.54 |
| T351LL/LG125 | $11 / 4$ | 32 | 1.81 | 46 | 150 | 0.78 |
| T351LL/LG150 | $11 / 2$ | 38 | 2.05 | 52 | 150 | 0.91 |

## COUPLING SUGGESTIONS

Short shank, long shank couplings (NPT, GHT), barbed inserts attached with bands.

## Hot Water

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## T352AA

75 PSI Radiator Hose

## Applications:

Radiator hose.

## Cover:

Black EPDM - heat, abrasion and ozone resistant.

## Reinforcement:

High tensile textile cords.

## Tube:

Black EPDM.

## Working Pressure:

5 Bar (75 PSI)
Temperature Range:
$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $248^{\circ} \mathrm{F}\left(+120^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY - T-352 RADIATOR - DIN 73411 dia mm / in. SAE 20R1-D2 (in yellow letters)

## Standard Length:

12 1/2 foot and 200 foot coils for 1/2" to 2" ID sizes, 12 1/2 foot coils for 2 3/16" to 5" sizes

| Nominal Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \hline \mathbf{O D} \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. WP (PSI) | Available Length | $\begin{gathered} \text { Weight } \\ \text { (lbs,/ft.) } \end{gathered}$ |
| T352AA050X12.6 | 1/2 | 13 | 0.83 | 21 | 75 | 12'6" Coil | 0.19 |
| T352AA050X200 | 1/2 | 13 | 0.83 | 21 | 75 | 200' Coil | 0.19 |
| T352AA062X12.6 | 5/8 | 16 | 0.94 | 24 | 75 | 12 '6" Coil | 0.22 |
| T352AA071X12.6 | 11/16 | 18 | 1.02 | 26 | 75 | 12'6" Coil | 0.24 |
| T352AA078X12.6 | 13/16 | 20 | 1.10 | 28 | 75 | 12'6" Coil | 0.26 |
| T352AA087X12.6 | 7/8 | 22 | 1.18 | 30 | 75 | 12'6" Coil | 0.28 |
| T352AA087X200 | 7/8 | 22 | 1.18 | 30 | 75 | 200' Coil | 0.28 |
| T352AA100X12.6 | 1 | 25 | 1.30 | 33 | 75 | 12'6" Coil | 0.32 |
| T352AA100X200 | 1 | 25 | 1.30 | 33 | 75 | 200' Coil | 0.32 |
| T352AA112X12.6 | $11 / 8$ | 28 | 1.42 | 36 | 75 | 12'6" Coil | 0.34 |
| T352AA112X200 | $11 / 8$ | 28 | 1.42 | 36 | 75 | $200{ }^{\text {' Coil }}$ | 0.34 |
| T352AA118X12.6 | $13 / 16$ | 30 | 1.50 | 38 | 75 | 12'6" Coil | 0.37 |

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## Hot Water

T352AA
75 PSI Radiator Hose

| Nominal Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Available Length | $\begin{gathered} \text { Weight } \\ \text { (lbs./ft.) } \end{gathered}$ |
| T352AA125X12.6 | $11 / 4$ | 32 | 1.57 | 40 | 75 | 12'6" Coil | 0.39 |
| T352AA125X200 | $11 / 4$ | 32 | 1.57 | 40 | 75 | 200' Coil | 0.39 |
| T352AA137X12.6 | $13 / 8$ | 35 | 1.69 | 43 | 75 | 12'6" Coil | 0.42 |
| T352AA150X12.6 | 11/2 | 38 | 1.89 | 48 | 75 | $12^{\prime \prime}$ " Coil $^{\text {c }}$ | 0.57 |
| T352AA150X200 | $11 / 2$ | 38 | 1.89 | 48 | 75 | 200' Coil | 0.57 |
| T352AA157X12.6 | $19 / 16$ | 40 | 1.97 | 50 | 75 | $12^{\prime \prime} 6^{\prime \prime}$ Coil | 0.60 |
| T352AA157X200 | $19 / 16$ | 40 | 1.97 | 50 | 75 | 200' Coil | 0.60 |
| T352AA162X12.6 | $15 / 8$ | 42 | 2.05 | 52 | 75 | $12^{\prime \prime} 6^{\prime \prime}$ Coil | 0.63 |
| T352AA162X200 | $15 / 8$ | 42 | 2.05 | 52 | 75 | 200' Coil | 0.63 |
| T352AA175X12.6 | $13 / 4$ | 45 | 2.17 | 55 | 75 | $12^{\prime \prime} 6^{\prime \prime}$ Coil | 0.66 |
| T352AA175X200 | $13 / 4$ | 45 | 2.17 | 55 | 75 | 200' Coil | 0.66 |
| T352AA189X12.6 | 17/8 | 48 | 2.28 | 58 | 75 | 12'6" Coil | 0.70 |
| T352AA189X200 | 17/8 | 48 | 2.28 | 58 | 75 | 200' Coil | 0.70 |
| T352AA200X12.6 | 2 | 51 | 2.40 | 61 | 75 | $12^{\prime \prime} 6^{\prime \prime}$ Coil | 0.75 |
| T352AA200X200 | 2 | 51 | 2.40 | 61 | 75 | 200' Coil | 0.75 |
| T352AA218X12.6 | $23 / 16$ | 55 | 2.56 | 65 | 75 | 12'6" Coil | 0.80 |
| T352AA225X12.6 | $21 / 4$ | 57 | 2.64 | 67 | 75 | 12'6" Coil | 0.82 |
| T352AA238X12.6 | $23 / 8$ | 60 | 2.76 | 70 | 75 | $12^{\prime \prime} 6^{\prime \prime}$ Coil | 0.86 |
| T352AA250X12.6 | $21 / 2$ | 63 | 2.87 | 73 | 75 | 12'6" Coil | 0.90 |
| T352AA275X12.6 | $23 / 4$ | 70 | 3.15 | 80 | 75 | 12'6" Coil | 0.97 |
| T352AA300X12.6 | 3 | 76 | 3.39 | 86 | 75 | 12'6" Coil | 1.04 |
| T352AA315X12.6 | $31 / 8$ | 80 | 3.54 | 90 | 75 | 12'6" Coil | 1.10 |
| T352AA354X12.6 | $39 / 16$ | 90 | 4.02 | 102 | 75 | 12'6" Coil | 1.36 |
| T352AA400X12.6 | 4 | 102 | 4.49 | 114 | 75 | 12'6" Coil | 1.52 |
| T352AA450X12.6 | $41 / 2$ | 116 | 5.00 | 127 | 75 | 12'6" Coil | 1.69 |
| T352AA500×12.6 | 5 | 127 | 5.55 | 141 | 75 | $12^{\prime \prime} 6^{\prime \prime}$ Coil | 2.16 |

## Steam Hose Safety Facts HALEAGOMMA

## (Reprinted from RMA IP-11-1 Steam Hose)

Handling steam is a very hazardous situation. Using care and some safety precaution can minimize or eliminate personal or property damage.

## SELECTING AND USING STEAM HOSE

1. Make sure steam hose is identified as a steam hose. It should be branded as such, stating working pressure and temperature rating.
2. Make sure working pressure and temperature is not exceeded.
3. Do not allow hose to remain under pressure when not in use.
4. Avoid excess bending or flexing of hose near the coupling. Straight line operation is preferred. If bends are necessary as part of operation, spring guards may help.
5. Be sure and use recommended steam hose couplings and clamps on hose.

## MAINTENANCE OF STEAM HOSE

1. Periodic inspection of hose should include looking for cover blisters and lumps.
2. Check for kinked areas that could damage hose.
3. Drain hose after each use to avoid tube damage before hose is put back in operation, to avoid "popcorning" of the tube.
4. Check tightness of clamps bolts after each use.
5. Check to see if clamps halves are touching. If they are, recouple hose with smaller clamps to insure proper tightness or grip around hose.
6. Do not store hose over hooks.
7. Steam hose lying on metal racks or installed around steel piping will dry out the hose, causing tube and cover cracking.
8. For service in sub-zero application, use only T-341 chlorbutyl hose.

The chart represents the three forms of water when subjected to heat and pressure. Use only hoses specifically designed for the application.


## SELECTING AND USING STEAM HOSE

| Gauge Pressure |  | Temperature |  |
| :---: | :---: | :---: | :---: |
| psi | bar | ${ }^{\circ} \mathrm{C}$ | ${ }^{\circ} \mathrm{F}$ |
| 25 | 1.73 | 130 | 267 |
| 30 | 2.07 | 134 | 274 |
| 35 | 2.42 | 138 | 281 |
| 40 | 2.76 | 141 | 287 |
| 45 | 3.11 | 144 | 292 |
| 50 | 3.45 | 148 | 298 |
| 60 | 4.14 | 153 | 307 |
| 70 | 4.83 | 158 | 316 |
| 80 | 5.52 | 162 | 324 |
| 90 | 6.21 | 166 | 330 |
| 100 | 6.90 | 170 | 338 |
| 120 | 8.28 | 177 | 350 |
| 140 | 9.66 | 182 | 361 |
| 160 | 11.04 | 188 | 371 |
| 180 | 12.42 | 193 | 379 |
| 200 | 13.80 | 198 | 388 |
| 225 | 15.53 | 203 | 397 |
| 250 | 17.25 | 208 | 406 |
| 275 | 18.98 | 212 | 414 |
| 300 | 20.70 | 216 | 422 |
| 325 | 22.43 | 221 | 429 |
| 350 | 24.15 | 225 | 437 |
|  |  |  |  |

## CORROSIVE STEAM

When the water used to generate steam contains dissolved air, oxygen or carbon dioxide, then these gases end up as contaminants in the steam. At high temperatures of steam both oxygen and carbon dioxide are extremely corrosive.

Carbon dioxide is acidic and therefore attacks metals whereas the oxygen corrodes metals and oxidizes rubbers. Corrosion of metals in the presence of both oxygen and acids is forty times faster than with either alone. Boiler water is therefore normally treated not only to remove the "hardness" which would cause "furring" of the boiler but also to remove dissolved oxygen and carbon dioxide and to ensure that the steam is not only not acidic but even slightly alkaline. Boiler water treatment is a specialised subject beyond the scope of this technical sheet but correct steam generation is important.

## DETERIORATION OF STEAM HOSE

Like all rubber products steam hoses have a finite life and are subject to gradual deterioration with use. However, it sometimes happens that hoses which have been giving a good life suddenly start failing without apparent reason. In such cases it is often a change in the steam conditions causing a rapid acceleration of a normal failure mode. It is therefore useful to consider how steam hoses normally last and thus how the condition of the steam affects hose life.

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## Steam

## T340AH / T340AA 270 PSI EPDM Braided Steam Hose

 T340AA Black CoverRed Cover

## Working Pressure:

Constant Pressure - 18 Bar (270 PSI)
Temperature Range:
$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $410^{\circ} \mathrm{F}\left(+210^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T340 18 BAR (270 PSI) STEAM DRAIN AFTER USE - QTR/YEAR (embossed)

## Standard Length:

50 or 100 feet
100 feet - 2 1/2"
200 feet $-3 / 4^{\prime \prime}$

> Warning<br>> Handling steam is very hazardous. If it is not properly controlled it can cause property damage, injury or even death. Selection for the proper application, usage, and maintenance will not only increase hose life but will insure safe operation for the user.

Black extruded EPDM - heat-resistant.
Not for steam cleaner use.
Not

## The transfer of saturated steam up to 270 PSI and

Applications: $410^{\circ} \mathrm{F}\left(+210^{\circ} \mathrm{C}\right)$.

* Use with superheated steam will shorten hose life. Proper draining of steam hose after each use will increase service life.
* Not recommended for washdown applications where detergent or oils are present.


## Cover:

Red or black EPDM - heat-resistant. Wrapped cover fabric impression. Pin-pricked cover to allow venting.

## Reinforcement:

High tensile steel wire braids (1/2" ID - 1 wire braid, 3/4" and higher ID's - 2 wire braids).

## Tube:

| Nominal Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Max Rec. } \\ & \text { WP (PSI) } \end{aligned}$ | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | $\begin{aligned} & \text { Weight } \\ & \text { (lbs.fft.) } \end{aligned}$ |
| T340AH/AA050 | 1/2 | 13 | 0.91 | 23 | 270 | 5 | 0.28 |
| T340AH/AA075 | 3/4 | 19 | 1.22 | 31 | 270 | $71 / 2$ | 0.52 |
| T340AH/AA100 | 1 | 25 | 1.50 | 38 | 270 | 10 | 0.60 |
| T340AA200 | 2 | 51 | 2.64 | 67 | 270 | 20 | 1.38 |
| T340AA250 | $21 / 2$ | 63 | 3.19 | 81 | 270 | 25 | 1.99 |
| T340AA300 | 3 | 76 | 3.70 | 94 | 270 | 30 | 2.50 |

## REFER TO STEAM HOSE SAFETY FACTS ON PAGE 24.

## COUPLING SUGGESTIONS

Steel or malleable iron male insert NPT or female ground joint or washer type with spuds attached with 2 or 4 bolt interlocking clamps.

* Kuriyama offers a full line of ground joint couplings and clamps. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.
* Universal quick-acting couplings should not be used with steam hose.


## T341AH / T341AA 270 PSI Chlorobutyl Braided Steam Hose



## Applications:

The transfer of saturated and superheated steam up to 270 PSI and $\max 410^{\circ} \mathrm{F}\left(+210^{\circ} \mathrm{C}\right)$ in shipyards, chemical plants and industrial applications.
$\star$ Proper draining of steam hose after each use will increase service life.

* Not recommended for washdown applications where detergent or oils are present.


## Cover:

Red or black EPDM - heat-resistant. Wrapped cover fabric impression. Pin-pricked cover to allow venting.

## Reinforcement:

High tensile steel wire braids (1/2" ID - 1 wire braid, $3 / 4^{\prime \prime}$ and higher ID's -2 wire braids).

## Tube:

Black extruded CIIR - heat-resistant.
Not for steam cleaner use.

## Warning

Handling steam is very hazardous. If it is not properly controlled it can cause property damage, injury or even death. Selection for the proper application, usage, and maintenance will not only increase hose life but will insure safe operation for the user.

## Working Pressure:

Constant Pressure - 18 Bar (270 PSI)

## Temperature Range:

$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $410^{\circ} \mathrm{F}\left(+210^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T341 18 BAR (270 PSI) STEAM DRAIN AFTER USE - QTR/YEAR (embossed)
Standard Length:
50 or 100 feet

| Nominal Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Min. Bending Radius (in. © 68 ${ }^{\circ} \mathrm{F}$ ) | Weight <br> (lbs./ft.) |
| T341AH/AA050 | 1/2 | 13 | 0.91 | 23 | 270 | 5 | 0.29 |
| T341AH/AA075 | 3/4 | 19 | 1.22 | 31 | 270 | $71 / 2$ | 0.53 |
| T341AH/AA100 | 1 | 25 | 1.50 | 38 | 270 | 10 | 0.62 |
| T341AH/AA125 | 11/4 | 32 | 1.81 | 46 | 270 | $121 / 2$ | 0.89 |
| T341AH/AA150 | 11/2 | 38 | 2.05 | 52 | 270 | 15 | 0.97 |
| T341AH/AA200 | 2 | 51 | 2.64 | 67 | 270 | 20 | 1.44 |

*T341AA/AH 1 1/4", 1 1/2" \& 2" not suitable for "Ship to Shore" service.

## REFER TO STEAM HOSE SAFETY FACTS ON PAGE 24.

## COUPLING SUGGESTIONS

Steel or malleable iron male insert NPT or female ground joint or washer type with spuds attached with 2 or 4 bolt interlocking clamps.

* Kuriyama offers a full line of ground joint couplings and clamps. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.
* Universal quick-acting couplings should not be used with steam hose.


## 困ALEAGOMTNAT

## Steam

# T343AH 270 PSI Braided Refinery Steam hose 

## NEW <br> PRODUGI

## Applications:

Saturated and superheated steam in applications where an oil resistant cover is needed.

* Use with superheated steam will shorten hose life. Proper draining of steam hose after each use will increase service life.
* Not recommended for washdown applications where detergent or oils are present.


## Cover:

Red special compound - heat, oil-resistant, ozone and hydrocarbon resistant. Pin-pricked cover to allow venting.

## Reinforcement:

High tensile steel wire braids.
Tube:
Black extruded EPDM - heat-resistant.
Not for steam cleaner use.

> Warning
> Handling steam is very hazardous. If it is not properly controlled it can cause property damage, injury or even death. Selection for the proper application, usage, and maintenance will not only increase hose life but will insure safe operation for the user.

## Working Pressure:

Constant Pressure - 18 Bar (270 PSI)
Temperature Range:
$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $410^{\circ} \mathrm{F}\left(+210^{\circ} \mathrm{C}\right)$

## Branding:

Embossed brand ALFAGOMMA - ITALY T343 18 BAR (270 PSI) STEAM - DRAIN AFTER USE - QTR/YEAR

## Standard Length:

50 or 100 feet

| Nominal Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{ID} \\ (\mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Min. Bending Radius (in. © 68 ${ }^{\circ} \mathrm{F}$ ) | Weight (lbs./ft.) |
| T343AH075 | 3/4 | 19 | 1.22 | 31 | 270 | $71 / 2$ | 0.54 |
| T343AH100 | 1 | 25 | 1.50 | 38 | 270 | 10 | 0.66 |

## REFER TO STEAM HOSE SAFETY FACTS ON PAGE 24.

## COUPLING SUGGESTIONS

Steel or malleable iron male insert NPT or female ground joint or washer type with spuds attached with 2 or 4 bolt interlocking clamps.

* Kuriyama offers a full line of ground joint couplings and clamps. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.
- Universal quick-acting couplings should not be used with steam hose.



## General Applications:

- Liquid food suction and discharge.
- Alcoholic beverages up to 75 proof-wine, beer \& spirits
- Milk tanker collection \& unloading-ideal for reel applications
- Hot food-constant operations: liquid food up to $230^{\circ} \mathrm{F}\left(110^{\circ} \mathrm{C}\right)$, fat foods up to $248^{\circ} \mathrm{F}\left(120^{\circ} \mathrm{C}\right)$
- Fat foods-perfect for animal fats and any vegetable oils
- Hose may be sterilized with $266^{\circ} \mathrm{F}\left(130^{\circ} \mathrm{C}\right)$ steam for 30 minutes or with $5 \%$ soda solution.


## Construction:

Tube: White NBR rubber specially compounded to satisfy the highest food industry standards. Compliant to FDA and 3A standards. Phthalate free.

# T400LL / T400LB Evolution Series 

## Replacing T405LL / T405LB Multi Food S \& D Hose

3-A<br>COMPLIANT MATERIAL

Reinforcement: High tensile textile cords with embedded steel helix wire.
Cover: NBR/PVC abrasion, weather \& ozone resistant. White (LL) or Gray (LB).

## Service Temperature Range:

Liquid foods $-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $+230^{\circ} \mathrm{F}\left(+110^{\circ} \mathrm{C}\right)$ Fat foods $-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $+248^{\circ} \mathrm{F}\left(+120^{\circ} \mathrm{C}\right)$

## Branding:

AG - ITALY-400 EVOLUTION 10 bar (150 psi) MULTI FOOD S\&D $110^{\circ} \mathrm{C}\left(230^{\circ} \mathrm{F}\right)$ FDA $3-A$ (food symbol)

## Nominal Specifications

| Series Number | $\begin{aligned} & \text { ID } \\ & \text { (in) } \end{aligned}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | OD <br> (in) | $\begin{gathered} \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. WP (psi) | Vacuum HG <br> (in) | Min. Bending Radius at $68^{\circ} \mathrm{F}(\mathrm{in})$ | Standard <br> Length (fit) | Weight (lbs/ft) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T400LL/LB100 | 1 | 25 | 1.42 | 36 | 150 | 30 | 2 | 100 | 0.56 |
| T400LL/LB125 | $11 / 4$ | 32 | 1.69 | 43 | 150 | 30 | $21 / 2$ | 100 | 0.68 |
| T400LL/LB150 | 11/2 | 38 | 1.93 | 49 | 150 | 30 | 3 | 100 | 0.79 |
| T400LL/LB200 | 2 | 51 | 2.48 | 63 | 150 | 30 | 4 | 100 | 1.07 |
| T400LL/LB250 | $21 / 2$ | 63 | 2.99 | 76 | 150 | 27 | 5 | 100 | 1.61 |
| T400LL/LB300 | 3 | 76 | 3.50 | 89 | 150 | 27 | 6 | 100 | 1.94 |
| T400LL/LB400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 8 | 100 | 2.63 |

CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36 OF THE ALFAGOMMA INDUSTRIAL RUBBER HOSE CATALOG.

## COUPLING SUGGESTIONS

Quick-Acting or combination nipples attached with single bolt, double bolt, wire or band type clamps.

[^3]
## FDA Liquid Food transfer ©ALFAGOMMA

T410LL
240 PSI Food \& Beverage S \& D Hose - Crush Resistant


## Applications:

Food and alcoholic beverage suction and discharge. Specially designed for wine, beer and spirits, up to 95 proof.
Hose may be sterilized with steam at $226^{\circ} \mathrm{F}\left(+130^{\circ} \mathrm{C}\right)$ for 30 minutes or with $5 \%$ soda solution.

## $\star$

Not recommended for dry abrasive materials.

## Cover:

White EPDM - abrasion and ozone resistant.

## Reinforcement:

High tensile textile cords with embedded PET helix.

## Tube:

White nontoxic CIIR. Meets FDA and 3A (18-03) requirements.

## Working Pressure:

Constant Pressure - 16 Bar (240 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $226^{\circ} \mathrm{F}\left(+108^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T410 16 BAR (240 PSI) - FOOD SUCTION \& DELIVERY - CRUSH RESISTANT (in black letters)

## Standard Length:

100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{aligned} & \text { ID } \\ & \text { (in.) } \end{aligned}$ | $\begin{gathered} \mathrm{ID} \\ (\mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline 0 \mathrm{D} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} 0 \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | $\begin{aligned} & \text { Weight } \\ & \text { (lbs./ft.) } \end{aligned}$ |
| T410LL100 | 1 | 25 | 1.46 | 37 | 240 | 30 |  | 0.60 |
| T410LL150 | 11/2 | 38 | 2.05 | 52 | 240 | 30 | 6 | 1.00 |
| T410LL200 | 2 | 51 | 2.56 | 65 | 240 | 30 | 8 | 1.29 |
| T410LL300 | 3 | 76 | 3.62 | 92 | 240 | 30 | 12 | 2.23 |

## CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting couplings attached with bands.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {TM }}$ and Accessories Catalog for type and pricing.


## -1ALFAGONIMA



## plastǐs <br> manufacturing solutions

# T410LB <br> 240 PSI Food \& Beverage S \& D Hose - Crush Resistant 



## Applications:

Food and alcoholic beverage suction and discharge. Specially designed for wine, beer and spirits, up to 95 proof.
Hose may be sterilized with steam at $226^{\circ} \mathrm{F}\left(+130^{\circ} \mathrm{C}\right)$ for 30 minutes or with 5\% soda solution.

* Not recommended for dry abrasive materials.

Cover:
Grey EPDM - abrasion and ozone resistant.

## Reinforcement:

High tensile textile cords with embedded PET helix.

## Tube:

White nontoxic CIIR. Meets FDA and 3A (18-03) requirements.

## Working Pressure:

Constant Pressure - 16 Bar (240 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $226^{\circ} \mathrm{F}\left(+108^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T410 16 BAR (240 PSI) - FOOD SUCTION \& DELIVERY - CRUSH RESISTANT (in black letters)
Standard Length:
100 feet

Nominal Specifications

| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius $\text { (in. @ } 68^{\circ} \mathrm{F} \text { ) }$ | Weight (lbs./ft.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T410LB100 | 1 | 25 | 1.46 | 37 | 240 | 30 | 5 | 0.60 |
| T410LB200 | 2 | 51 | 2.56 | 65 | 240 | 30 | 8 | 1.29 |
| T410LB300 | 3 | 76 | 3.62 | 92 | 240 | 30 | 12 | 2.23 |

## CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting couplings attached with bands.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\mathrm{TM}}$ and Accessories Catalog for type and pricing.


## FDA Liquid Food Transfer $\operatorname{BaALFAGOMMA}$

## BBREWT <br> T422LH Series <br> Liquid S\&D Brewery Hose

## General Applications:

- Brewery suction and discharge.
- Liquid food and alcoholic beverage suction and discharge (up to 95 proof).
- Versatile hose for applications requiring superb flexibility and light weight, while still maintaining high strength and durability.


## Construction:

- Tube - White Chlorobutyl meeting 3A (18-03) and FDA requirements.
- Reinforcement - High tensile textile cords with specially designed embedded helix wires.
- Cover - Red smooth NR/EPDM blend for abrasion and ozone resistance.



## Service Temperature Range:

## $-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $+226^{\circ} \mathrm{F}\left(+108^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA ITALY 42210 bar (150 psi)
BREWERY S\&D (brewt logo) - extra flexible - FDA (white letters)

## Features and Advantages:

- Extreme Flexibility - Uniquely designed for maximum flexibility, bends easily around brewery equipment and works well in tight spaces.
- Lightweight - Up to $25 \%$ lighter weight than similar rubber hoses, while still maintaining 150 PSI working pressure.
- High Heat Resistance - Chlorobutyl tube capable of handling $+226^{\circ} \mathrm{F}\left(+108^{\circ} \mathrm{C}\right)$ on a continuous basis. Allows for sterilization with $+266^{\circ} \mathrm{F}\left(+130^{\circ} \mathrm{C}\right)$ steam for 30 minutes or with $5 \%$ soda solution.
- High Purity Tube - Will not impart odor or taste.
- Smooth Cover - Designed for easy cleaning, no gaps or crevices for dirt or bacteria to hide. Also provides a smooth surface for clamping.

| Nominal Specifications |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series No. | ID |  | OD |  | $\begin{aligned} & \text { Max. Rec. WP } \\ & \text { (PSI) } \end{aligned}$ | Vacuum HG <br> (in.) | $\begin{gathered} \hline \text { Min. Bend } \\ \text { Radius } \\ \text { (in. @ } 68^{\circ} \text { F) } \end{gathered}$ | Standard Length Coils (ft.) | Weight (lbs./ft.) |
|  | (in.) | (mm) | (in.) | (mm) |  |  |  |  |  |
| T422LH100 | 1 | 25 | 1.38 | 35 | 150 | 30 | 2 | 100 | 0.47 |
| T422LH125 | 11/4 | 32 | 1.65 | 42 | 150 | 30 | $21 / 2$ | 100 | 0.58 |
| T422LH150 | 11/2 | 38 | 1.89 | 48 | 150 | 30 | 3 | 100 | 0.67 |
| T422LH200 | 2 | 51 | 2.40 | 61 | 150 | 30 | 4 | 100 | 0.88 |
| T422LH250 | $21 / 2$ | 63 | 3.00 | 76 | 150 | 30 | 5 | 100 | 1.59 |
| T422LH300 | 3 | 76 | 3.54 | 90 | 150 | 27 | 6 | 100 | 2.04 |
| T422LH400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 8 | 100 | 2.67 |

## ®ALFAGOMIMA



## T426LB 150 PSI Grey Food S \&D Hose CORRUGATED

## Applications:

Liquid, fatty, oily food and alcoholic beverage (max 75 proof) suction and discharge.
Hose may be sterilized with $5 \%$ soda solution.

* Not recommended for dry abrasive materials.


## Cover:

Grey NBR/PVC - abrasion, ozone and oil resistant.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Tube:

White NBR. Meets FDA and 3A $(18-03)$ requirements.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T426 10 BAR (150 PSI) GENERAL PURPOSE FOOD QUALITY - S \& D (black letters)
Standard Length: 100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{ID} \\ (\mathrm{~mm}) \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. © $68^{\circ} \mathrm{F}$ ) | Weight <br> (lbs./ft.) |
| T426LB300 | 3 | 76 | 3.62 | 92 | 150 | 30 | 6 | 1.84 |
| T426LB400 | 4 | 102 | 4.65 | 118 | 150 | 30 | 8 | 2.69 |

## CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {™ }}$ and Accessories Catalog for type and pricing.


## FDA Liquid Food Transfer ealfagomma

# plastǐs 

## T455LL 150 PSI Food Discharge Hose



COMPLIANT MATERIAL

## Applications:

Discharge of liquid, fatty, oily foods and alcoholic beverages (max 75 proof).
Hose may be sterilized with 5\% soda solution.
Not recommended for dry abrasive materials.

## Cover:

White NBR/PVC blend - abrasion, ozone and oil resistant.
Reinforcement:
High tensile textile cords.
Tube:
White NBR. Meets FDA and $3 \mathrm{~A}(18-03)$ requirements.

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T455LL150 | $11 / 2$ | 38 | 1.89 | 48 | 150 | 0.60 |
| T455LL200 | 2 | 51 | 2.48 | 63 | 150 | 0.95 |
| T455LL300 | 3 | 76 | 3.46 | 88 | 150 | 1.38 |

## CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting couplings attached with bands.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{TM}}$ and Accessories Catalog for type and pricing.


## gallfagomma FDA Liquid Food Iransfer



## Applications:

Discharge of water used for drinking. Most often used for temporary water lines in construction and industrial applications.

## Cover:

Blue SBR/EPDM blend - abrasion and ozone resistant.

## Reinforcement:

High tensile textile cords.
Tube:
White NR. Meets FDA and 3A (18-03) requirements.

Working Pressure:
Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T452 10 BAR POTABLE WATER HOSE (150 PSI) WP (in white letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Weight (lbs./ft.) |
| T452LE150 | $11 / 2$ | 38 | 1.97 | 50 | 150 | 0.73 |
| T452LE200 | 2 | 51 | 2.56 | 65 | 150 | 1.13 |
| T452LE300 | 3 | 76 | 3.62 | 92 | 150 | 1.88 |
| T452LE400 | 4 | 102 | 4.65 | 118 | 150 | 2.51 |

## CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting couplings attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings. Refer to current Kuriyama-Couplings ${ }^{\text {TM }}$ and Accessories Catalog for type and pricing.


## FDA Liquid Compatibility Guide ®alleagomma

The following data is based on tests and believed to be reliable; however, we emphasize that the tabulation should be used as a guide only, since it does not take into consideration all variables such as elevated temperatures, fluid contamination, concentration, etc. that may be encountered in actual use. All critical applications should be tested. Contact ALFAGOMMA for recommendation and assistance.

## KEY TO FDA LIQUID MATERIAL COMPATIBILITY CHART

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

Alfagomma ${ }^{\circledR}$ hoses are produced using silicone free release agents.

| FOOD | NATURAL RUBBER | CHLOROBUTYL | EPDM | NBR |
| :---: | :---: | :---: | :---: | :---: |
| BEER | F | G | E | E |
| BEET SUGAR, GRANULAR | E | X | G | E |
| BUTTERMILK | X | F | G | E |
| CANE SUGAR, GRANULAR | E | X | G | G |
| CASHEW NUT OIL | X | F | G |  |
| CASTOR OIL | X | F | G | E |
| CITRIC ACID | E | E | E | E |
| COCOA BUTTER | X | F | G | G |
| COCONUT OIL | X | F | G | E |
| CORN OIL | X | F | G | E |
| COTTONSEED OIL | X | F | G | E |
| ETHANOL (GRAIN ALCOHOL) | F | G | E | E |
| FISH MEAL |  |  |  |  |
| FLOUR | E | X | G |  |
| GRAPE JUICE | F | G | E | G |
| LACTIC ACID | F | F | G | E |
| LARD OIL | X | F | G | E |
| LINSEED OIL | X | F | G | E |
| LIQUOR (SPIRITS) | F | G | E | G |
| MILK | E | E | E | E |
| MINERAL OIL | X | X | X | E |
| MOLASSES | E | E | E | E |
| OLEIC ACID | X | F | G | F |
| OLIVE OIL | X | F | G | E |
| PALMITIC ACID | X | F | G | E |
| PARAFFINS | X | X | X | E |
| PEANUT OIL | X | F | G | E |
| POTATO FLOUR | E | X | G |  |
| SALT, GRANULAR | E | X | G | E |
| SOYBEAN OIL | X | F | G | E |
| SUCROSE, GRANULATED | E | X | G | G |
| SUGAR, GRANULATED | E | X | G | F |
| SUGAR SYRUP | E | E | E | F |
| TALLOW | X | X |  | E |
| TOMATO JUICE, PASTE \& PUREE SAUCE | E | E | E | G |
| VEGETABLE OILS | X | F | G | E |
| VINEGAR | F | F | G | F |
| WATER, POTABLE | E | E | E | E |
| WHISKEY | F | G | E | E |
| WINES | F | G | E | E |

## BALEAGOMMA FDA Dry Food Material Handiling



## Applications:

Suction and discharge of wet or dry abrasive materials. Designed for grains, flour and pellet transfer.

## Cover:

Green SBR/EPDM blend - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords with flexible steel helix wire and static wire.

## Tube:

3/16" white NR - abrasion resistant. Meets FDA requirements.

## Working Pressure:

Constant Pressure -
$10 \operatorname{Bar}(150 \mathrm{PSI})$ for 2", 3", 4"
5 Bar (75 PSI) for 5", 6", 8"
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T720 - BULK FOOD \& MATERIAL

- S \& D (in white letters)

Standard Length:
100 feet: 2" through 4"
20 feet: $5^{\prime \prime}, 6^{\prime \prime}$ and 8"
50 feet: $4^{\prime \prime}, 5^{\prime \prime}$ and 6"

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{OD}}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | Weight (lbs./ft.) |
| T720LG200 | 2 | 51 | 2.64 | 67 | 150 | 30 | 6 | 1.23 |
| T720LG300 | 3 | 76 | 3.62 | 92 | 150 | 27 | 9 | 1.91 |
| T720LG400 | 4 | 102 | 4.65 | 118 | 150 | 27 | 12 | 2.63 |
| T720LG500 | 5 | 127 | 5.71 | 145 | 75 | 24 | 20 | 3.81 |
| T720LG600 | 6 | 152 | 6.69 | 170 | 75 | 24 | 24 | 4.72 |
| T720LG800 | 8 | 203 | 8.78 | 223 | 75 | 21 | 32 | 7.01 |

t Please note: Proper grounding of static wire will prolong tube life.

## CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


## FDA Dry Food Material Handling \&ALFAGONMAA

## T714LG

## Material Handling Hose FDA Grade CORRUGATED

## Applications:

For suction or discharge of wet or dry abrasive materials. Suitable for handling materials for human consumption.
Cover:
Green corrugated Nat/SBR blend rubber.
Reinforcement:
Spiraled high tensile textile cords with flexible steel helix wire and static wire.
Tube:
Natural white gum rubber $3 / 16$ " thick. Meets FDA requirements.


## Working Pressure:

Constant Pressure - 5 Bar (75 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T714 - 5 Bar (75 PSI) - BULK FOOD \& MATERIAL - S \& D (in white letters)
Standard Length:
50 feet: 5" and 6"
20 feet: $5^{\prime \prime}, 6 "$ and $8 "$

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | $\begin{gathered} \text { Min. Bending } \\ \text { Radius (in. @ } 68^{\circ} \mathrm{F} \text { ) } \end{gathered}$ | $\begin{gathered} \text { Weight } \\ \text { (lbs./ft.) } \end{gathered}$ |
| T714LG500 | 5 | 127 | 5.63 | 143 | 75 | 24 | 12.5 | 3.8 |
| T714LG600 | 6 | 152 | 6.85 | 174 | 75 | 24 | 24 | 4.75 |
| T714LG800 | 8 | 203 | 8.94 | 227 | 75 | 21 | 32 | 7.01 |

* Please note: Proper grounding of static wire will prolong tube life.


## CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\mathrm{TM}}$ and Accessories Catalog for type and pricing.


## ⒶLALEAGOMMAA FDA Dry Food Material Handling



## T760LE 75 PSI Dry Bulk Food Discharge Hose

## Applications:

Discharge or delivery of dry bulk food products.

## Cover:

Blue SBR/EPDM - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords with static wire.
Tube:
3/16" white NR - abrasion resistant. Meets FDA requirements.

## Working Pressure:

Constant Pressure - 5 Bar (75 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T760 5 BAR (75 PSI) - BULK FOOD \& MATERIAL DELIVERY (in white letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathrm{mm})$ | OD <br> (in.) | OD <br> (mm) | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T760LE400 | 4 | 102 | 4.65 | 118 | 75 | 2.12 |

* Please note: Proper grounding of static wire will prolong tube life.

CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

## COUPLING SUGGESTIONS

Quick-Acting coupling attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {TM }}$ and Accessories Catalog for type and pricing.


## Chemical <br> plastiKs <br> manufacturing solutions

 \&ALEAGOMNTAS
## T5050G <br> Acid - Chemical S \& D 240 PSI - XLPE

## Warning

Before using chemical hoses consult chemical resistance chart or consult factory.

## Applications:

Suction and transfer service for a variety of chemicals and solvents. Will handle $90 \%$ of existing chemicals. See Chemical Resistance Chart on pages 66-75.

## Cover:

Green EPDM - abrasion and ozone resistant.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Tube:

Transparent XLPE (cross-linked polyethylene).

## Working Pressure:

Constant Pressure - 16 Bar (240 PSI)

## Temperature Range:

Normal recommended operating temperature is $-22^{\circ} \mathrm{F}$ $\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T505 16 BAR (240 PSI) - XLPE CHEMICAL - S \& D (in orange letters)

## Standard Length:

100 feet
IT IS ADVISABLE TO TEST THE TUBE MATERIAL UNDER ACTUAL SERVICE
CONDITIONS PRIOR TO USE.
NOTE: FOR MAXIMUM SERVICE LIFE, WE RECOMMEND THAT T505 HOSE BE FLUSHED OUT AFTER EVERY USE.

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius <br> (in. @ 68 | Weight <br> (lbs./ft.) |
| T5050G075 | $3 / 4$ | 19 | 1.22 | 31 | 240 | 27 | $71 / 2$ | 0.46 |
| T5050G100 | 1 | 25 | 1.46 | 37 | 240 | 27 | 9 | 0.56 |
| T5050G150 | $11 / 2$ | 38 | 1.97 | 50 | 240 | 27 | $131 / 4$ | 0.76 |
| T5050G200 | 2 | 51 | 2.48 | 63 | 240 | 27 | $161 / 4$ | 1.00 |
| T5050G300 | 3 | 76 | 3.62 | 92 | 240 | 24 | $203 / 4$ | 1.83 |
| T5050G400 | 4 | 102 | 4.65 | 118 | 240 | 24 | $261 / 2$ | 2.50 |

## COUPLING SUGGESTIONS

Quick-Acting and combination nipples, preferably stainless steel, attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.


## 困ALEAGONTVIA

## Chemical

## plastiks <br> manufacturing solutions T5090E Acid - Chemical S \& D 240 PSI - UHMWPE Meets FDA Requirements Suitable for use with DEF

Warning<br>Before using chemical hoses consult chemical resistance chart or consult factory.

## Applications:

Suction and transfer service for a variety of chemicals and acids. Will handle 98\% of EXISTING CHEMICALS. See Chemical Resistance Chart on pages 66-75.

## Cover:

Blue EPDM - abrasion and ozone resistant.

## Reinforcement:

Synthetic textile cords with flexible steel helix wire.

## Tube:

Transparent UHMWPE (Ultra High Molecular Weight Polyethylene).

## Working Pressure:

Constant Pressure - 16 Bar (240 PSI)

## Temperature Range:

Normal recommended operating temperature is $-22^{\circ} \mathrm{F}$ $\left(-30^{\circ} \mathrm{C}\right)$ to $200^{\circ} \mathrm{F}\left(+93^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T509 16 BAR (240 PSI) UHMWPE CHEMICAL - S \& D (in orange letters)
Standard Length:
100 feet
IT IS ADVISABLE TO TEST THE TUBE MATERIAL UNDER ACTUAL SERVICE CONDITIONS PRIOR TO USE.
NOTE: FOR MAXIMUM SERVICE LIFE, WE RECOMMEND THAT T509 HOSE BE FLUSHED OUT AFTER EVERY USE.

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. <br> WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius $\text { (in. © } 68^{\circ} \mathrm{F} \text { ) }$ | $\begin{gathered} \text { Weight } \\ \text { (lbs./ft.) } \end{gathered}$ |
| T5090E075 | 3/4 | 19 | 1.22 | 31 | 240 | 27 | $71 / 2$ | 0.41 |
| T5090E100 | 1 | 25 | 1.46 | 37 | 240 | 27 | 9 | 0.50 |
| T5090E125 | $11 / 4$ | 32 | 1.73 | 44 | 240 | 27 | 10 1/4 | 0.60 |
| T5090E150 | 11/2 | 38 | 1.97 | 50 | 240 | 27 | $131 / 4$ | 0.68 |
| T5090E200 | 2 | 51 | 2.48 | 63 | 240 | 27 | $161 / 4$ | 0.91 |
| T5090E250 | $21 / 2$ | 63 | 3.03 | 77 | 240 | 27 | 17 1/2 | 1.40 |
| T5090E300 | 3 | 76 | 3.62 | 92 | 240 | 24 | $203 / 4$ | 1.91 |
| T5090E400 | 4 | 102 | 4.65 | 118 | 240 | 24 | $261 / 2$ | 2.61 |
| T5090E600 | 6 | 152 | 6.77 | 172 | 240 | 24 | 40 | 5.28 |

## COUPLING SUGGESTIONS

Quick-Acting and combination nipples, preferably stainless steel, attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.


## Chemical

## 困ALFAGOVTVIA

## T5190E

## Acid - Chemical S \& D 240 PSI - UHMWPE Corrugated Suitable for use with DEF

## CORRUGATED

## Applications:

Suction and transfer service for a variety of chemicals and acids. Will handle 98\% of EXISTING CHEMICALS. See Chemical Resistance Chart on pages 66-75.

## Cover:

Blue EPDM - abrasion and ozone resistant.

## Reinforcement:

Synthetic textile cords with flexible steel helix wire.
Tube:
Transparent UHMWPE (Ultra High Molecular Weight Polyethylene).


## Temperature Range:

Normal recommended operating temperature is $-22^{\circ} \mathrm{F}$ $\left(-30^{\circ} \mathrm{C}\right)$ to $200^{\circ} \mathrm{F}\left(+93^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T519 16 BAR (240 PSI) UHMWPE CHEMICAL - S \& D (in orange letters)

## Standard Length:

100 feet

[^4]| Nominal Specifications |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius <br> (in.) | Weight <br> (lbs./100 ft.) |
| T5190E200 | 2 | 51 | 2.48 | 63 | 240 | 27 | 6 | 94 |
| T5190E300 | 3 | 76 | 3.54 | 90 | 240 | 27 | 9 | 169 |
| T5190E400 | 4 | 102 | 4.57 | 116 | 240 | 27 | 12 | 275 |

## COUPLING SUGGESTIONS

Quick-Acting and combination nipples, preferably stainless steel, attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


## TALFAGOVTMIA

## Petroleum

## AALEAGOMTMA

 plastiKs T600AAHard Wall Marine Exhaust
Hose USCG/SAE J1527 A2/B2

## Applications:

Fuel, oil and hydraulic fluids suction and discharge.
Suitable for exhaust gas from water cooled stationary or marine diesel engines. Offers maximum flexibility.

## Cover:

Black NBR/PVC blend - abrasion, ozone, hydrocarbon and fire resistant.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Tube:

Black NBR - exhaust gas, fuel and fire resistant.

## Working Pressure:

Constant Pressure - 2 Bar (30 PSI)
Temperature Range:
$-4^{\circ} \mathrm{F}\left(-20^{\circ} \mathrm{C}\right)$ to $212^{\circ} \mathrm{F}\left(+100^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T600 MARINE EXHAUST/FUEL S \& D - <SIZE> - USCG/SAE J1527 TYPE A2 (in red letters)
Standard Length:
25 or 50 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{aligned} & \hline \text { ID } \\ & \text { (in.) } \end{aligned}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | Weight (lbs./ft.) |
| T600AA062 | 5/8 | 16 | 1.02 | 26 | 30 | 30 | 2 | 0.36 |
| T600AA075 | 3/4 | 19 | 1.14 | 29 | 30 | 30 | $21 / 4$ | 0.44 |
| T600AA087 | 7/8 | 22 | 1.26 | 32 | 30 | 30 | $23 / 4$ | 0.50 |
| T600AA100 | 1 | 25 | 1.38 | 35 | 30 | 30 | 3 | 0.56 |
| T600AA112 | $11 / 8$ | 28 | 1.50 | 38 | 30 | 30 | $31 / 4$ | 0.60 |
| T600AA125 | $11 / 4$ | 32 | 1.65 | 42 | 30 | 30 | $33 / 4$ | 0.65 |
| T600AA137 | $13 / 8$ | 35 | 1.77 | 45 | 30 | 30 | $41 / 4$ | 0.70 |
| T600AA150 | $11 / 2$ | 38 | 1.89 | 48 | 30 | 30 | $41 / 2$ | 0.76 |
| T600AA162 | $15 / 8$ | 42 | 2.17 | 52 | 30 | 30 | 5 | 0.81 |
| T600AA175 | $13 / 4$ | 45 | 2.16 | 55 | 30 | 30 | $51 / 4$ | 0.87 |
| T600AA189 | 17/8 | 48 | 2.28 | 58 | 30 | 30 | $53 / 4$ | 0.91 |
| T600AA200 | 2 | 51 | 2.40 | 61 | 30 | 30 | 6 | 0.99 |
| T600AA225 | $21 / 4$ | 57 | 2.64 | 67 | 30 | 30 | $63 / 4$ | 1.09 |
| T600AA238 | $23 / 8$ | 60 | 2.76 | 70 | 30 | 27 | 7 | 1.25 |
| T600AA250 | $21 / 2$ | 63 | 2.87 | 73 | 30 | 27 | $71 / 2$ | 1.31 |

## HALEAGOMMA <br> Petroleum

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \hline \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ 68우) | Weight <br> (lbs./ft.) |
| T600AA275 | $23 / 4$ | 70 | 3.11 | 80 | 30 | 27 | $81 / 4$ | 1.41 |
| T600AA300 | 3 | 76 | 3.39 | 86 | 30 | 27 | 9 | 1.53 |
| T600AA350 | $31 / 2$ | 90 | 3.94 | 100 | 30 | 27 | 10 1/2 | 1.91 |
| T600AA400 | 4 | 102 | 4.41 | 112 | 30 | 27 | 12 | 2.12 |
| T600AA450 | $41 / 2$ | 115 | 5.00 | 127 | 30 | 27 | $131 / 2$ | 2.72 |
| T600AA500 | 5 | 127 | 5.55 | 141 | 30 | 24 | 15 | 3.04 |

## Petroleum

## ALALEAGOMTMA

## plastiKs <br> manufacturing solutions

## T653AA <br> Soft Wall Marine Exhaust Hose - SAE J2006 R1

## Applications:

Marine wet exhaust and bilge pump connections.

## Cover:

Black Synthetic Rubber - abrasion, ozone and hydrocarbon resistant.

## Reinforcement:

High tensile textile cords.
Tube:
Black Synthetic Rubber.

Working Pressure:
Constant Pressure - 5 Bar (75 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $212^{\circ} \mathrm{F}\left(+100^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY - T653 SOFT WALL MARINE WET
EXHAUST SAE J2006 R1 <SIZE> <YYYY MFG> (in blue letters)
Standard Length:
$121 / 2$ feet in straight lengths

| Nominal Specifications |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{aligned} & \text { ID } \\ & \text { (in.) } \end{aligned}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \mathbf{O D} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Max Rec. } \\ & \text { WP (PSI) } \end{aligned}$ | $\begin{gathered} \text { Weight } \\ \text { (lbs./ft.) } \end{gathered}$ |
| T653AA100 | 1 | 25 | 1.38 | 35 | 75 | 0.43 |
| T653AA112 | $11 / 8$ | 28 | 1.50 | 38 | 75 | 0.47 |
| T653AA125 | 11/4 | 32 | 1.65 | 42 | 75 | 0.52 |
| T653AA137 | $13 / 8$ | 35 | 1.77 | 45 | 75 | 0.56 |
| T653AA150 | 11/2 | 38 | 1.89 | 48 | 75 | 0.61 |
| T653AA162 | $15 / 8$ | 42 | 2.05 | 52 | 75 | 0.66 |
| T653AA175 | $13 / 4$ | 45 | 2.17 | 55 | 75 | 0.70 |
| T653AA189 | $17 / 8$ | 48 | 2.28 | 58 | 75 | 0.75 |
| T653AA200 | 2 | 51 | 2.48 | 63 | 75 | 0.97 |
| T653AA225 | $21 / 4$ | 57 | 2.72 | 69 | 75 | 1.07 |
| T653AA238 | $23 / 8$ | 60 | 2.91 | 74 | 75 | 1.31 |
| T653AA250 | $21 / 2$ | 63 | 3.03 | 77 | 75 | 1.37 |
| T653AA300 | 3 | 76 | 3.54 | 90 | 75 | 1.64 |
| T653AA350 | $31 / 2$ | 90 | 4.09 | 104 | 75 | 1.95 |
| T653AA400 | 4 | 102 | 4.57 | 116 | 75 | 2.18 |

## HALEAGOMTMA

## Petroleum

## plasti久s <br> T653AA (continued)

Soft Wall Marine Exhaust Hose - SAE J2006 R1

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> (mm) | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T653AA450 | $41 / 2$ | 115 | 5.08 | 129 | 75 | 2.43 |
| T653AA500 | 5 | 127 | 5.55 | 141 | 75 | 2.68 |
| T653AA600 | 6 | 152 | 6.61 | 168 | 75 | 3.26 |
| T653AA662 | $65 / 8$ | 168 | 7.24 | 184 | 75 | 3.57 |
| T653AA800 | 8 | 203 | 8.70 | 221 | 75 | 4.96 |

## Petroleum

## HaLFeaconnas

## plastiks <br> manufacturing solutions

## T6D1AA <br> 400 PSI Oil Rigger / Frack Discharge Hose



## Applications:

Fracking fluids, liquid mud and crude oil delivery in oil field and gas exploration.

## Cover:

Black synthetic elastomer - abrasion, oil and ozone resistant.
Reinforcement:
High tensile textile cords.
Tube:
Black synthetic elastomer.

## Working Pressure:

Constant Pressure - 27 Bar (400 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY OIL RIGGER - FRACK 27 BAR (400 PSI) (in blue letters)

## Standard Length:

100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathrm{mm})$ | OD <br> (in.) | OD <br> (mm) | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T6D1AA400 | 4 | 102 | 4.72 | 120 | 400 | 2.89 |

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog for type and pricing.


## HALEAGOMTMA

## Petroleum



## Applications:

Fracking fluids, liquid mud and crude oil delivery in heavy duty oil field and gas exploration.

## Cover:

Black SUPERTUFF cover - abrasion, oil and ozone resistant.

Reinforcement:
High tensile textile cords.
Tube:
Black synthetic elastomer.

## Working Pressure:

Constant Pressure - 27 Bar (400 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY OIL RIGGER - FRACK 27 BAR (400 PSI) (in blue letters)

## Standard Length:

100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathrm{mm})$ | OD <br> (in.) | OD <br> $(\mathrm{mm})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| ST6D2AA400 | 4 | 102 | 4.72 | 120 | 400 | 2.93 |

## COUPLING SUGGESTIONS

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {™ }}$ and Accessories Catalog for type and pricing.


## Petroleum

## HALEAGOMTMA

## plastiKs

## CT601AA

150 PSI Corrugated Oil Rigger/Oil Field-Frack Tank Hose

## Applications:

Oil field vacuum tank service, for handling crude oil, frack solutions and slurries.
Note: For applications up to 35\% aromatics. Not for use with refined petroleum products.

## Cover:

Black corrugated SBR - abrasion, ozone, limited oil resistance.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T6C1 10 BAR (150 PSI) OIL FIELD-FRACK TANK S \& D (in blue letters)

## Standard Length:

100 feet: 2" through 4"

Tube:
Black Nitrile - PVC blend, limited oil resistance, for oil field use.

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \hline \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. <br> WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | $\begin{aligned} & \hline \text { Weight } \\ & \text { (lbs./ft.) } \end{aligned}$ |
| CT601AA200 | 2 | 51 | 2.40 | 61 | 150 | 30 | 6 | 0.86 |
| CT601AA300 | 3 | 76 | 3.46 | 88 | 150 | 27 | 9 | 1.61 |
| CT601AA400 | 4 | 102 | 4.49 | 114 | 150 | 27 | 12 | 2.39 |

## COUPLING SUGGESTIONS

Quick-Acting couplings or combination nipples attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top T M}$ and Accessories Catalog for type and pricing.


## HALEAGOMTMA

## Petroleum

## T601AA 150 PSI Oil Rigger/Oil FieldFrack Tank Hose

## Applications:

Oil field vacuum tank service, for handling crude oil, frack solutions and slurries.
Note: For applications up to 35\% aromatics. Not for use with refined petroleum products.

## Cover:

Black SBR - abrasion, ozone, limited oil resistance.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Tube:

Black Nitrile - PVC blend, limited oil resistance, for oil field use.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T601 10 BAR (150 PSI) OIL FIELD-FRACK TANK HOSE (in blue letters)

## Standard Length:

100 feet: 2" through 6"
20 feet: 6"

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | $\begin{aligned} & \text { Weight } \\ & \text { (lbs./ft.) } \end{aligned}$ |
| T601AA200 | 2 | 51 | 2.40 | 61 | 150 | 30 | 10 | 0.93 |
| T601AA300 | 3 | 76 | 3.46 | 88 | 150 | 27 | 15 | 1.73 |
| T601AA400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 20 | 2.40 |
| T601AA600 | 6 | 152 | 6.61 | 168 | 150 | 24 | 30 | 4.59 |

## COUPLING SUGGESTIONS

Quick-Acting couplings or combination nipples attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top T M}$ and Accessories Catalog for type and pricing.


# Petroleum 

## AALEAGORTMA

## T604AA <br> Flexor - SAE 100 R4 Oil Return Hose

## Applications:

Low pressure return lines or suction lines with half the bend radius requirements of SAE J517 100 R4, service with petroleum based hydraulic fluids, water-glycol and water-fire resistant hydraulic fluids, oil, lubricants, crude oil, fuel oils and water.

## Cover:

Black CR - oil, fuel, weather, ozone and abrasionresistant.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Tube:

Black conductive NBR.

## Working Pressure:

Constant Pressure $10 \operatorname{Bar}(150 \mathrm{PSI}) 11 / 2^{\prime \prime} 7$ Bar (100 PSI) 2"

## Temperature Range:

$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $212^{\circ} \mathrm{F}\left(+100^{\circ} \mathrm{C}\right)$ constant operation Maximum operating temperature: $257^{\circ} \mathrm{F}\left(+125^{\circ} \mathrm{C}\right)$. Air maximum temperature: $175^{\circ} \mathrm{F}\left(80^{\circ} \mathrm{C}\right)$.
Note: Operating temperatures in excess of $212^{\circ} \mathrm{F}$ $\left(+100^{\circ} \mathrm{C}\right)$ may materially reduce the life of the hose.
Branding:
ALFAGOMMA - ITALY - T604 (PSI) - SAE 100 R4 - (SIZE) -
Date (in white letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | Weight (lbs./ft.) |
| T604AA075 | 3/4 | 19 | 1.14 | 29 | 300 | 30 | $21 / 4$ | 0.41 |
| T604AA100 | 1 | 25 | 1.38 | 35 | 250 | 30 | 3 | 0.52 |
| T604AA125 | 11/4 | 32 | 1.65 | 42 | 200 | 30 | $33 / 4$ | 0.61 |
| T604AA150 | 11/2 | 38 | 1.89 | 48 | 150 | 30 | $41 / 2$ | 0.70 |
| T604AA200 | 2 | 51 | 2.40 | 61 | 100 | 30 | 6 | 0.90 |

## COUPLING SUGGESTIONS

Crimp-on permanent type or combination nipples with bands.
Note: Hose cover does not need to be removed before attaching couplings.

[^5]
## AALEAGONTMA <br> Petroleum

## Applications:

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to $50 \%$ aromatic content.

## Cover:

Black CR - abrasion, ozone and hydrocarbon resistant.
Reinforcement:
High tensile textile cords with flexible steel helix wire.
Tube:
Black conductive NBR.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T605 - 10 BAR (150 PSI)
PETROLEUM - S \& D $\Omega$ - SAE 100R4 (in red letters)

## Standard Length:

100 feet: $3 / 4^{\prime \prime}$ through 6"
20 feet: 6", 8"
T605 IS NOT RECOMMENDED FOR USE ON A REEL.

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{aligned} & \hline \text { ID } \\ & \text { (in.) } \end{aligned}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{OD}}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | Weight <br> (lbs./ft.) |
| T605AA075 | 3/4 | 19 | 1.14 | 29 | 150 | 30 | 3 | 0.41 |
| T605AA100 | 1 | 25 | 1.38 | 35 | 150 | 30 | 4 | 0.52 |
| T605AA125 | $11 / 4$ | 32 | 1.65 | 42 | 150 | 30 | 5 | 0.61 |
| T605AA150 | 11/2 | 38 | 1.89 | 48 | 150 | 30 | 6 | 0.71 |
| T605AA200 | 2 | 51 | 2.40 | 61 | 150 | 30 | 8 | 0.91 |
| T605AA250 | $21 / 2$ | 63 | 2.95 | 75 | 150 | 27 | 10 | 1.42 |
| T605AA300 | 3 | 76 | 3.54 | 90 | 150 | 27 | 12 | 1.75 |
| T605AA400 | 4 | 102 | 4.65 | 118 | 150 | 27 | 16 | 2.56 |
| T605AA600 | 6 | 152 | 6.69 | 170 | 150 | 24 | 24 | 4.95 |
| T605AA800 | 8 | 203 | 8.86 | 225 | 150 | 21 | 32 | 7.87 |

## COUPLING SUGGESTIONS

Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\mathrm{TM}}$ and Accessories Catalog for type and pricing.


## Petroleum

## HALEAGOMMA

## plastiKs <br> manufacturing solutions

## 6C5AA 150 PSI Corrugated Tank Truck Hose CORRUGATED

## Applications:

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to $50 \%$ aromatic content.

## Cover:

Black corrugated CR - abrasion, ozone, and hydrocarbon resistant.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Tube:

Black Conductive NBR.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T6C5 10 BAR (150 PSI) PETROLEUM TANK TRUCK (in red letters)
Standard Length:
100 feet: 2" through 4"
20 feet: 6"

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \mathrm{ID} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \mathbf{O D} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ 68º | Weight <br> (lbs./ft.) |
| 6C5AA200 | 2 | 51 | 2.48 | 63 | 150 | 30 | 4 | 0.85 |
| 6C5AA300 | 3 | 76 | 3.44 | 90 | 150 | 27 | 6 | 1.57 |
| 6C5AA400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 8 | 2.21 |
| 6C5AA600 | 6 | 152 | 6.54 | 166 | 150 | 27 | 12 | 3.59 |

## COUPLING SUGGESTIONS

Quick-Acting couplings or combination nipples attached with bands.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\mathrm{TM}}$ and Accessories Catalog for type and pricing.


## 困ALFAGOMTVAT

## Petroleum

 plastiMs
## Applications:

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to $50 \%$ aromatic content.

Cover:
Red CR - abrasion, ozone and hydrocarbon resistant.
Reinforcement:
High tensile textile cords with flexible steel helix wire.
Tube:
Black conductive NBR.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T605 - 10 BAR (150 PSI)
PETROLEUM - S \& D (in yellow letters)

## Standard Length:

100 feet

T605 IS NOT RECOMMENDED FOR USE ON A REEL.

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | 0D <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius <br> (in. © 68$)$ | Weight <br> (lbs./ft.) |
| T605AH150 | $11 / 2$ | 38 | 1.89 | 48 | 150 | 30 | 6 | 0.73 |
| T605AH200 | 2 | 51 | 2.40 | 61 | 150 | 30 | 8 | 0.94 |
| T605AH300 | 3 | 76 | 3.46 | 88 | 150 | 27 | 12 | 1.74 |
| T605AH400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 16 | 2.41 |

## COUPLING SUGGESTIONS

Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top T M}$ and Accessories Catalog for type and pricing.


## Petroleum HALEAGORTMA

# plastǐs <br> manufacturing solutions 



## Applications:

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to $50 \%$ aromatic content. Where extreme flexibility is needed in low temperature.

## Cover:

Blue corrugated - abrasion, ozone and hydrocarbon resistant.

## Reinforcement:

High tensile textile cords with flexible steel helix wire.

## Tube:

Black conductive NBR.

## Working Pressure:

Constant Pressure - 150 PSI
Temperature Range:
$-65^{\circ} \mathrm{F}\left(-54^{\circ} \mathrm{C}\right)$ to $180^{\circ} \mathrm{F}\left(+82^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T606-10 BAR (150 PSI)
PETROLEUM - S \& D Arctic (in blue letters on yellow layline)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\underset{(\mathrm{mm})}{\mathrm{ID}}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ 68우) | Weight (lbs./ft.) |
| T606AE200 | 2 | 51 | 2.48 | 63 | 150 | 30 | 3 | 1.06 |
| T606AE300 | 3 | 76 | 3.54 | 90 | 150 | 30 | $41 / 2$ | 1.84 |
| T606AE400 | 4 | 102 | 4.57 | 116 | 150 | 30 | 6 | 2.67 |

Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {TM }}$ and Accessories Catalog for type and pricing.


## ㄴALEAGOKTMA <br> Petroleum

## Applications:

Fuel and oil suction and discharge for up to 50\% aromatic content. Designed for heavy duty applications.

## Cover:

Black conductive CR - abrasion, ozone and hydrocarbon resistant.
Reinforcement:
High tensile textile cords with steel helix wire and static wire.
Tube:
Black conductive NBR.

## Working Pressure:

Constant Pressure - 20 Bar (300 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T620 - 20 BAR (300 PSI) PETROLEUM - S \& D $\Omega$ (in red letters)
Standard Length:
100 feet: 2" through 6"
20 feet: 6", 8"

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Max Rec. } \\ & \text { WP (PSI) } \end{aligned}$ | Vacuum HG <br> (in.) | Min. Bending Radius (in. © 68 | $\begin{gathered} \hline \text { Weight } \\ \text { (lbs./ft.) } \end{gathered}$ |
| T620AA200 | 2 | 51 | 2.48 | 63 | 300 | 30 | 8 | 1.10 |
| T620AA300 | 3 | 76 | 3.54 | 90 | 300 | 27 | 12 | 1.77 |
| T620AA400 | 4 | 102 | 4.57 | 116 | 300 | 27 | 16 | 2.43 |
| T620AA600 | 6 | 152 | 6.69 | 170 | 300 | 24 | 24 | 5.60 |
| T620AA800 | 8 | 203 | 8.86 | 225 | 300 | 21 | 32 | 9.24 |

COUPLING SUGGESTIONS
Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


## Petroleum

## HALEAGOMMA

## T629AA 150 PSI Black Biofuel Petroleum S \& D Hose

## Biofuel Friendly <br> products ${ }^{\text {w }}$

## Applications:

For suction and discharge applications in truck and tank car transfer of gasoline, oil and Biofuels - up to E98 and B100* with up to $60 \%$ aromatic content at ambient temperature.

## Cover:

Black specially-blended neoprene - added resistance against abrasion, ozone and hydrocarbons.

## Reinforcement:

High tensile textile cords with steel helix wire.

## Tube:

Black conductive synthetic rubber.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T629 - 10 BAR (150 PSI)
BIOFUEL $\Omega$ (in green letters)
Standard Length:
100 feet: 3/4" through 4"
t T629 is not recommended for use on a reel.
*Applies to Biodiesels which meet the ASTM D6751 criteria.

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \hline \mathbf{O D} \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. @ $68^{\circ} \mathrm{F}$ ) | Weight |
| T629AA075 | 3/4 | 19 | 1.14 | 29 | 150 | 30 | 3 | 0.41 |
| T629AA100 | 1 | 25 | 1.38 | 35 | 150 | 30 | 4 | 0.51 |
| T629AA150 | $11 / 2$ | 38 | 1.89 | 48 | 150 | 30 | 6 | 0.71 |
| T629AA200 | 2 | 51 | 2.40 | 61 | 150 | 30 | 8 | 0.91 |
| T629AA250 | $21 / 2$ | 63 | 2.95 | 75 | 150 | 27 | 10 | 1.42 |
| T629AA300 | 3 | 76 | 3.46 | 88 | 150 | 27 | 12 | 1.71 |
| T629AA400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 16 | 2.38 |

## COUPLING SUGGESTIONS

Quick-Acting or combination nipples attached with bands.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {™ }}$ and Accessories Catalog for type and pricing.


## HALEAGOMTMA

## Petroleum



## Applications:

Oil discharge hose designed for use on trucks, docks or barges where a soft wall hose is required.

## Cover:

Red CR - abrasion, ozone and hydrocarbon resistant.
Reinforcement:
Spiraled high tensile textile cords with embedded static wire.

## Tube:

Black conductive NBR.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T650 10 BAR (150 PSI) PETROLEUM DELIVERY (in yellow letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> (mm) | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T650AH150 | $11 / 2$ | 38 | 1.97 | 50 | 150 | 0.77 |
| T650AH200 | 2 | 51 | 2.40 | 61 | 150 | 0.82 |
| T650AH300 | 3 | 76 | 3.46 | 88 | 150 | 1.42 |
| T650AH400 | 4 | 102 | 4.49 | 114 | 150 | 1.92 |

## COUPLING SUGGESTIONS

Quick-Acting or combination nipples attached with bands.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


## Petroleum

## 困ALEAGOVTMTA

## plastǐs'

## T614AA <br> 150 PSI Hot Tar \& Asphalt S \& D Hose

## Applications:

Hot tar and asphalt suction and discharge service.

## Cover:

Black CSM - abrasion, ozone and hot tar resistant.
Reinforcement:
High tensile textile cords with steel helix wire.
Tube:
Black NBR - hot tar and asphalt resistant.

Working Pressure:
10 Bar (150 PSI)
Temperature Range:
$-4^{\circ} \mathrm{F}\left(-20^{\circ} \mathrm{C}\right)$ to $356^{\circ} \mathrm{F}\left(+180^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T614 10 BAR (150 PSI) HOT TAR AND ASPHALT (on red stripe)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> $(\mathbf{i n .})$ | ID <br> $(\mathbf{m m})$ | OD <br> $(\mathbf{i n .})$ | OD <br> $(\mathbf{m m})$ | Wall Thickness <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Vacuum HG <br> $(\mathbf{i n .})$ | Min. Bending <br> Radius (in.) | Weight <br> $(\mathbf{l b s} . / \mathrm{ft})$. |
| T614AA200 | 2 | 51 | 2.72 | 69 | 9 | 150 | 30 | 10 | 1.64 |
| T614AA300 | 3 | 76 | 3.78 | 96 | 10 | 150 | 27 | 15 | 2.69 |
| T614AA400 | 4 | 102 | 4.80 | 122 | 10 | 150 | 27 | 20 | 3.57 |

## COUPLING SUGGESTIONS

Permanently attached couplings are suggested for assemblies.

## HALEAGOMMA

## Petroleum

## plastiKs

## T631AA <br> 300 PSI Hot Tar \& Asphalt Applicator Delivery Hose

## Applications:

Hot tar and asphalt delivery service.

## Cover:

Black CR - abrasion, ozone, hydrocarbon and fire resistant.

## Reinforcement:

High tensile steel wire braids.
Tube:
Black NBR - hot tar and asphalt resistant.

10:1

Working Pressure:
20 Bar (300 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $356^{\circ} \mathrm{F}\left(+180^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T631 20 BAR (300 PSI) HOT TAR
AND ASPHALT (embossed)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Wall Thickness <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Min. Bending <br> Radius (in.) | Weight <br> (lbs./ft.) |
| T631AA075 | $3 / 4$ | 19 | 1.26 | 32 | 6 | 300 | 3 | 0.50 |
| T631AA100 | 1 | 25 | 1.50 | 38 | 6 | 300 | 3 | 0.77 |

## Petroleum

## 国ALEAGOVTMAT

## plastiKs

## T631AE <br> 300 PSI Hydrocarbon Drain Hose



## Applications:

Drain hose for residue from cleaning storage tanks and refining hydrocarbons.

## Cover:

Blue CR - abrasion and hydrocarbon resistant.

## Reinforcement:

High tensile steel wire braids.
Tube:
Black NBR-hydrocarbon resistant.

## Working Pressure:

20Bar (300 PSI)

## Temperature Range:

$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $356^{\circ} \mathrm{F}\left(+180^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA-HYDROCARBON DRAIN HOSE-300PSI
Standard Length:
100 Feet

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Wall Thickness <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Min. Bending <br> Radius (in.) | Approx. Weight <br> $(\mathrm{lbs} / / \mathrm{ft})$ |
| T631AE075 | $3 / 4$ | 19 | 1.26 | 32 | 6 | 300 | 3 | 0.50 |



## Service Temperature Range:

$-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $+212^{\circ} \mathrm{F}\left(+100^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA ITALY 10 bar ( 150 psi) HEAVY DUTY INDUSTRIAL VACUUM S\&D

## Features and Advantages:

## plastiks

## THE BODMER"'

## T704HA Series [CORJUGATED Industrial Sewer Vacuum Hose

## General Applications:

- Material handling suction/discharge.
- Industrial vacuum equipment applications.
- Great hose for dry or wet abrasive materials.
- Popular hose for vacuum truck industry where a rugged and durable hose product is needed.
- Drill cutting suction hose in mobile drilling rigs.


## Construction:

- Tube - $1 / 4^{\text {" }}$ thick red gum rubber tube for abrasionresistance.
- Cover - Corrugated black conductive SBR/NR blend cover for abrasion and ozone-resistance.
- Reinforcement - High tensile textile fabric with embedded steel helical wire.
Abrasion Resistant Tube - $1 / 4^{\prime \prime}$ gum rubber tube designed for wet or dry applications where severe abrasion is a factor. Provides for long hose service life.
Heavy Duty Construction - Thick tube and cover, high tensile strength fabric and durable steel helix wire designed for high pressure and vacuum application. All sizes rated to full vacuum, and PSI safety factor 3:1 (2"-8") and 2.5:1 (10").
Grounding Wire - Steel wire helps prevent the build-up of static electricity and to help keep material flowing smoothly. ${ }^{\dagger}$
Corrugated Outer Cover - Provides increased hose flexibility.
"Cold-Flex" Materials - Hose remains flexible in sub-zero temperatures.
Cuffed Ends Available - Available with soft cuffed ends for easy installation and clamping.

| Nominal Specifications |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> ( $\mathbf{m m}$ ) | OD <br> (in.) | OD <br> ( $\mathbf{m m}$ ) | Max Rec. <br> WP (PSI) | Vacuum HG <br> (in.) | Min. Bend <br> Radius <br> (in. © 68 ${ }^{\circ}$ F) | Standard <br> Length Coils <br> (ft.) | Weight <br> (lbs./ft.) |
| T704HA200 | 2 | 51 | 2.87 | 69 | 150 | 30 | 6 | 100 | 1.41 |
| T704HA300 | 3 | 76 | 3.69 | 96 | 150 | 30 | 9 | 100 | 2.40 |
| T704HA400 | 4 | 102 | 5.03 | 122 | 150 | 30 | 12 | 100 | 3.39 |
| T704HA500 | 5 | 127 | 6.22 | 149 | 150 | 30 | 15 | 100 | 4.31 |
| T704HA600 | 6 | 152 | 7.04 | 174 | 150 | 30 | 24 | $100 / 50$ | 5.13 |
| T704HA800 | 8 | 203 | 9.00 | 227 | 150 | 30 | 32 | $100 / 50 / 35$ | 9.26 |
| T704HA1000 | 10 | 254 | 11.22 | 283 | 150 | 30 | 40 | 35 | 13.82 |

$\dagger$ Caution: This product is desgined to help dissipate static electricity when the netal wire is properly connected to ground, through the fitting or other means.

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


# Material Handling 

## LT753AA 150 PSI 2-Ply Abrasive Material Blast Hose

## Applications:

Designed to convey abrasives, sand and shot blast material.
Cover:
Black conductive SBR/NR blend - abrasion and ozone resistant - pin pricked.
Reinforcement:
High tensile textile cords - 2-ply construction.
Tube:
Black static conducting NR - offering excellent abrasion resistance.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$
Branding:
ALFAGOMMA - ITALY T750 ABRASIVE MATERIAL BLAST - 10 BAR (150 PSI) $\Omega$ (in white letters)
Standard Length:
50 or 100 feet

| Nominal Specifications |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Tube Thickness <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| LT753AA050 | $1 / 2$ | 13 | 1.06 | 27 | 0.212 | 150 | 0.34 |
| LT753AA125 | $11 / 4$ | 32 | 1.89 | 48 | 0.240 | 150 | 0.77 |

NOTE: Tolerances according to RMA Class 311-A

## Blasting Data Guide

Premature hose wear can be prevented if the proper nozzle size is used for the corresponding hose ID size. (See chart below)

| Blasting Data Guide |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Series | UB8 | UB7 | UB6 | UB5 | UB4 |
| NOZZLE SIZE | $1 / 2$ | $7 / 16$ | $3 / 8$ | $5 / 16$ | $1 / 4$ |
| CFM @ 100 PSI | 350 | 260 | 200 | 150 | 90 |
| AIR HOSE | 2 | $11 / 2$ | $11 / 2$ | $11 / 4$ | $11 / 4$ |
| S.B. HOSE SIZE | $11 / 2$ | $11 / 2$ | $11 / 4$ | $11 / 4$ | 1 |
| MAT. LB/HR | 2250 | 1750 | 1260 | 900 | 540 |



T750AA Black Cover T750AG

## T750AA / T750AG 150 PSI 4-Ply Abrasive Material Blast Hose

## Applications:

Designed to convey abrasives, sand and shot blast material.

## Cover:

Black or green, conductive SBR/NR blend - abrasion and ozone resistant - pin pricked.

## Reinforcement:

High tensile textile cords - 4-ply construction.
Tube:
Black static conducting natural rubber - offering excellent abrasion resistance.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T750 ABRASIVE MATERIAL BLAST 10 BAR (150 PSI) $\Omega$ (in white letters)
Standard Length:
50 or 100 feet

| Nominal Specifications |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> $(\mathrm{in})$. | OD <br> $(\mathbf{m m})$ | Tube Thickness <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T750AA/AG075 | $3 / 4$ | 19 | 1.50 | 38 | 0.236 | 150 | 0.68 |
| T750AA/AG100 | 1 | 25 | 1.89 | 48 | 0.283 | 150 | 1.04 |
| T750AA/AG125 | $11 / 4$ | 32 | 2.17 | 55 | 0.283 | 150 | 1.23 |
| T750AA/AG150 | $11 / 2$ | 38 | 2.36 | 60 | 0.260 | 150 | 1.40 |
| T750AA200 | 2 | 51 | 2.87 | 73 | 0.260 | 150 | 1.77 |

NOTE: Tolerances according to RMA Class 311-A

| HOSE ID (in.) | HOSE ENDS | NOZZLE HOLDERS | THREADED FEMALE ADAPTER | GASKETS |
| :--- | :---: | :---: | :---: | :---: |
| $3 / 4$ | Q-1AL, Q-1BR, Q-1PI | NH-1AL, NH-1BR | - | SBG |
| 1 | $Q-2 A L, ~ Q-2 B R, ~ Q-2 P I ~$ | NH-2AL, NH-2BR | - | SBG |
| $11 / 4$ | $Q-3 A L, ~ Q-3 B R, ~ Q-3 P I ~$ | NH-3AL, NH-3BR | SB-1AL, SB-1BR | SBG |
| $11 / 2$ | $Q-4 A L, ~ Q-4 B R, ~ Q-4 P I ~$ | NH-4AL, NH-4BR | SB-2AL, SB-2BR | SBG |

## COUPLING SUGGESTIONS

Sandblast couplings and nozzle holders attached with screws. See next column for coupling part numbers.
K Kuriyama offers a full line of sandblast couplings. Refer to current Kuriyama-Couplings ${ }^{\top \mathrm{M}}$ and Accessories Catalog.

## T720AA Bulk Material S \& D Hose

## Applications:

Suction and discharge of wet or dry abrasive materials. Designed for grains and dry cement.

## Cover:

Black conductive SBR/NR blend - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords with flexible steel helix wire.
Tube:
3/16" black conductive NR - abrasion resistant.


## Working Pressure:

Constant Pressure -
$10 \operatorname{Bar}(150 \mathrm{PSI})$ for 2", 3", 4" 5 Bar (75 PSI) for 5", 6", 8"
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T720 - BULK MATERIAL - S \& D (in white letters)
Standard Length:
100 feet: 2" through 4"
20 feet: $5^{\prime \prime}, 6^{\prime \prime}$ and 8"
50 feet: $4^{\prime \prime}, 5^{\prime \prime}$ and 6"

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { OD } \\ & \text { (in.) } \end{aligned}$ | $\begin{gathered} \mathrm{OD} \\ (\mathrm{~mm}) \end{gathered}$ | Max Rec. WP (PSI) | Vacuum HG <br> (in.) | Min. Bending Radius (in. © 68 ${ }^{\circ} \mathrm{F}$ ) | Weight <br> (lbs./ft.) |
| T720AA200 | 2 | 51 | 2.56 | 65 | 150 | 30 | 6 | 0.97 |
| T720AA300 | 3 | 76 | 3.54 | 90 | 150 | 27 | 9 | 1.54 |
| T720AA400 | 4 | 102 | 4.57 | 116 | 150 | 27 | 12 | 2.15 |
| T720AA500 | 5 | 127 | 5.63 | 143 | 75 | 24 | 20 | 3.20 |
| T720AA600 | 6 | 152 | 6.61 | 168 | 75 | 24 | 24 | 4.01 |
| T720AA800 | 8 | 203 | 8.70 | 221 | 75 | 21 | 32 | 6.05 |

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

- Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{T M}$ and Accessories Catalog for type and pricing.


## ⒶLFAGOMMA



# plastiks 

## T740AA 1275 PSI High Performance Steel - Reinforced Concrete Pumping Hose

## Applications:

Steel-reinforced concrete pumping hose - Special easyhandling construction for concrete placement at casting site.

## Cover:

Black conductive SBR/NR blend - abrasion and ozone resistant.

## Reinforcement:

High tensile steel cords.

## Tube:

Black conductive NR - abrasion resistant.

## Working Pressure:

Working Pressure - 85 Bar ( 1275 PSI)

## Temperature Range:

$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T740 85 BAR (1275 PSI) W. P. HEAVY DUTY CONCRETE PUMPING (in white letters)

## Standard Length:

100 feet 2" through 4"
50 feet 2" through 5"

| Nominal Specifications |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> $(\mathbf{i n .})$ | OD <br> $(\mathbf{m m})$ | Wall Thickness <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Min. Bending <br> Radius (in.) | Weight <br> $(\mathbf{( b s . / f t . )}$ |
| T740AA200 | 2 | 51 | 2.72 | 69 | 9 | 1275 | 10 | 1.44 |
| T740AA250 | $21 / 2$ | 63 | 3.35 | 85 | 11 | 1275 | $101 / 2$ | 2.25 |
| T740AA300 | 3 | 76 | 3.94 | 100 | 12 | 1275 | 15 | 3.06 |
| T740AA400 | 4 | 102 | 5.04 | 128 | 13 | 1275 | 20 | 4.72 |
| T740AA500 | 5 | 127 | 6.10 | 155 | 14 | 1275 | 25 | 6.95 |

## COUPLING SUGGESTIONS

Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.

# Material Handling 

## ⒶLFAGOMMA

## plastiKs

## T757AA / T737AA 600 PSI Plaster \& Concrete Hose (Series T737AA for 3" ID)

## Applications:

Designed for pumping plaster, grout, and wet cement to placement sites.

## Cover:

Black conductive SBR/NR - abrasion and ozone resistant.
Reinforcement:
High tensile textile cords.
Tube:
Black conductive NR - abrasion resistant.

## Working Pressure:

Constant Pressure - 40 Bar (600 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T757-40 BAR (600 PSI) PLASTER \& CONCRETE (in white letters) and ALFAGOMMA - ITALY T737-40 BAR (600 PSI) PLASTER \& CONCRETE (in white letters)

## Standard Length:

100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./tt.) |
| T757AA150 | $11 / 2$ | 38 | 2.13 | 54 | 600 | 0.82 |
| T757AA200 | 2 | 51 | 2.64 | 67 | 600 | 1.09 |
| T737AA300 | 3 | 76 | 4.09 | 104 | 600 | 2.96 |

## COUPLING SUGGESTIONS

Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.

## ⒶLFAGOMMA <br> Material Handling



T758AA Black Cover T758AE Blue Cover

T758AA / T758AE 800 PSI Plaster, Grout \& Concrete Hose

## Applications:

Designed for pumping plaster, grout, wet cement to construction placement sites at rated pressures.

## Cover:

Black SBR/NR.
Blue SBR/EPDM.

## Reinforcement:

Spiraled high tensile textile cords.
Tube:
Black conductive NR - abrasion-resistant.

## Working Pressure:

Constant Pressure - 55 Bar (800 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T758-55 BAR (800 PSI)
PLASTER \& CONCRETE (in white letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> (mm) | OD <br> (in.) | OD <br> (mm) | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T758AA/AE100 | 1 | 25 | 1.57 | 40 | 800 | 0.60 |
| T758AA/AE125 | $11 / 4$ | 32 | 1.93 | 49 | 800 | 0.85 |
| T758AA/AE150 | $11 / 2$ | 38 | 2.28 | 58 | 800 | 1.15 |
| T758AA/AE200 | 2 | 51 | 2.80 | 71 | 800 | 1.49 |

## COUPLING SUGGESTIONS

Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.

## Applications:

Discharge of dry powders under low pressure, such as dry cement, grains and animal feed transfer.

## Cover:

Black conductive SBR/NR blend - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords.

## Tube:

3/16" black static conducting NR - compounded to resist cutting by abrasive materials.

## Working Pressure:

Constant Pressure - 5 Bar (75 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T760 5 BAR (75 PSI) BULK MATERIAL DELIVERY (in white letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> (mm) | OD <br> (in.) | OD <br> (mm) | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T760AA400 | 4 | 102 | 4.53 | 115 | 75 | 1.58 |
| T760AA450 | $41 / 2$ | 115 | 5.00 | 127 | 75 | 1.85 |
| T760AA500 | 5 | 127 | 5.47 | 139 | 75 | 2.05 |
| T760AA600 | 6 | 152 | 6.61 | 168 | 75 | 2.30 |

* Excessive bending during operation may cause premature wear.


## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {TM }}$ and Accessories Catalog for type and pricing.



# T763AA 75 PSI Heavy Weight Dry Powder Delivery Hose 

## Applications:

Discharge of dry powders under low pressure. Pneumatic transfer of dry materials and abrasive slurries.

## Cover:

Black conductive SBR/NR blend - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords.

## Tube:

1/4" black static conducting NR - compounded to resist cutting by abrasive materials.

## Working Pressure:

Constant Pressure - 5 Bar (75 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T763 5 BAR (75 PSI) BULK MATERIAL DELIVERY (in green letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathbf{m m})$ | OD <br> (in.) | OD <br> $(\mathbf{m m})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T763AA400 | 4 | 102 | 4.72 | 120 | 75 | 2.14 |
| T763AA450 | $41 / 2$ | 115 | 5.24 | 133 | 75 | 2.30 |
| T763AA500 | 5 | 127 | 5.71 | 145 | 75 | 2.60 |

t Excessive bending during operation may cause premature wear.

## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\mathrm{TM}}$ and Accessories Catalog for type and pricing. <br> \section*{\title{
HWT763AA <br> \section*{\title{
HWT763AA 75 PSI Heavy Duty Dry 75 PSI Heavy Duty Dry Powder Delivery Hose Powder Delivery Hose 3/8" Tube
}} 3/8" Tube
}}


## Applications:

Discharge of dry powders under low pressure. Pneumatic transfer of dry materials and abrasive slurries.

## Cover:

Black conductive SBR/NR blend - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords.

## Tube:

3/8" black static conducting NR - compounded to resist cutting by abrasive materials.


| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathrm{mm})$ | OD <br> (in.) | OD <br> $(\mathrm{mm})$ | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| HWT763AA400 | 4 | 102 | 4.96 | 126 | 75 | 2.56 |

- Excessive bending during operation may cause premature wear.


## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\text {™ }}$ and Accessories Catalog for type and pricing.


## AALFAGOMMA



## T766AA 150 PSI Heavy Duty Dry Powder Delivery Hose

## Applications:

Discharge of dry powders in heavy duty applications, such as dry cement, grains and animal feed transfer.

## Cover:

Black conductive SBR/NR blend - abrasion and ozone resistant.

## Reinforcement:

Spiraled high tensile textile cords.

## Tube:

1/4" black static conducting NR - compounded to resist cutting by abrasive materials.

## Working Pressure:

Constant Pressure - 10 Bar (150 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $176^{\circ} \mathrm{F}\left(+80^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY T766 10 Bar (150 PSI) BULK MATERIAL DELIVERY (in white letters)
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> $(\mathrm{mm})$ | OD <br> (in.) | OD <br> $(\mathrm{mm})$ | Max Rec. <br> WP (PSI) | Weight <br> ( (bs./ft.) |
| T766AA400 | 4 | 102 | 4.65 | 118 | 150 | 1.96 |

* Excessive bending during operation may cause premature wear.


## COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

* Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings ${ }^{\top M}$ and Accessories Catalog for type and pricing.


## Specialty Hoses <br> \&ALEAGOMMA?

# manufacturing solutions 



## Applications:

Underground mine water spray for dust control. Also usable on continuous mining machinery.

## Cover:

Yellow SBR/NBR blend - abrasion, ozone, hydrocarbon and fire resistant - pin pricked.
Reinforcement:
High tensile steel wire braids.

## Tube:

Black Extruded SBR/NBR blend - oil mist resistant.

## Working Pressure:

Constant Pressure - 70 BAR (1000 PSI)
Temperature Range:
$-22^{\circ} \mathrm{F}\left(-30^{\circ} \mathrm{C}\right)$ to $200^{\circ} \mathrm{F}\left(+90^{\circ} \mathrm{C}\right)$

## Branding:

ALFAGOMMA - ITALY - 70 BAR (1000 PSI) MINE SPRAY MSHA IC - 152/6 (embossed)

## Standard Length:

50 or 100 feet

| Nominal Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | $\begin{gathered} \hline \text { ID } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \text { ID } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \hline \text { OD } \\ (\mathrm{mm}) \end{gathered}$ | Max Rec. WP (PSI) | Min. Bending Radius (in. @ $68^{\circ}$ F) | $\begin{gathered} \hline \text { Weight } \\ \text { (lbs./ft.) } \end{gathered}$ |
| T146AK075 | 3/4 | 19 | 1.10 | 28 | 1000 | $33 / 4$ | 0.45 |
| T146AK100 | 1 | 25 | 1.34 | 34 | 1000 | 5 | 0.58 |
| T146AK125 | $11 / 4$ | 32 | 1.61 | 41 | 1000 | $61 / 4$ | 0.75 |
| T146AK150 | 11/2 | 38 | 1.93 | 49 | 1000 | $71 / 2$ | 1.08 |
| T146AK200 | 2 | 51 | 2.48 | 63 | 1000 | 10 | 1.47 |

## COUPLING SUGGESTIONS

Permanently attached crimped hydraulic couplings.

## ATALEAGOVTVIA <br> Specialty Hoses

## plastiks

## T957LL 300 PSI Furnace Door Coolant Hose

## Applications:

To convey cooling water to furnace doors in steel mills, glass plants, foundries, or where the hose is subjected to high temperatures and splashes of white-hot molten metals or glass.

## Cover:

Beige EPDM - heat resistant, non-conductive resincoated dust-free fiberglass cover.

## Reinforcement:

High tensile textile cords.

## Tube:

White EPDM.

## Working Pressure:

Constant Pressure - 20 BAR (300 PSI)
Temperature Range:
Tube: $-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $248^{\circ} \mathrm{F}\left(+120^{\circ} \mathrm{C}\right)$
Cover: $-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right.$ ) to $1000^{\circ} \mathrm{F}$ (up to $+540^{\circ} \mathrm{C}$ )
Standard Length:
100 feet

| Nominal Specifications |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Series | ID <br> (in.) | ID <br> (mm) | OD <br> (in.) | OD <br> (mm) | Max Rec. <br> WP (PSI) | Weight <br> (lbs./ft.) |
| T957LL050 | $1 / 2$ | 13 | 0.98 | 25 | 300 | 0.30 |
| T957LL075 | $3 / 4$ | 19 | 1.22 | 31 | 300 | 0.46 |
| T957LL100 | 1 | 25 | 1.46 | 37 | 300 | 0.56 |
| T957LL125 | $11 / 4$ | 32 | 1.81 | 46 | 300 | 0.82 |
| T957LL150 | $11 / 2$ | 38 | 2.13 | 54 | 300 | 0.98 |
| T957LL200 | 2 | 51 | 2.64 | 67 | 300 | 1.26 |
| T957LL250 | $21 / 2$ | 63 | 3.19 | 81 | 300 | 1.55 |
| T957LL300 | 3 | 76 | 3.78 | 96 | 300 | 2.15 |

* Special order, minimums required. Contact your nearest KOA warehouse location for more information.


## Care, Maintenance \& Storage BALFAGOxMA

## (Reprinted from RMA Hose Handbook 1 P-2 - Fourth Edition)

Hose has a limited life and the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials,

## GENERAL CARE AND MAINTENANCE OF HOSE

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hoses should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as to not subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

## STORAGE

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored, and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom. Since hose products vary considerably in size, weight, and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as could a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents, and corrosive liquids; shipping containers also afford some protection against ozone and sunlight.

Certain rodents and insects will damage rubber hose products, and adequate protection from them should be provided.

The ideal temperature for the storage of rubber products ranges from $50^{\circ}$ to $70^{\circ} \mathrm{F}\left(10-20^{\circ} \mathrm{C}\right)$ with a maximum limit of $100^{\circ} \mathrm{F}\left(38^{\circ} \mathrm{C}\right)$. If stored below $32^{\circ} \mathrm{F}$ $\left(0^{\circ} \mathrm{C}\right)$, some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.
To avoid the adverse effects of high ozone concentration, rubber hose products should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration. Exposure to direct or reflected sunlight - even through windows - should also be avoided. Uncovered hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free of dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best conditions, an unusually long shelf life could deteriorate certain rubber products.

## HALEAGOMMAS

## Technical Data

## Flexibility \& Bend Radius

Flexibility and minimum bend radius are important factors in hose design and selection if it is known that the hose will be subjected to sharp curvatures in normal use. When bent at too sharp an angle, hose may kink or flatten in the cross-section. The reinforcement may also be unduly stressed or distorted and the hose life thereby shortened.

Adequate flexibility means the hose should be able to conform to the smallest anticipated bend radius without over stress. The minimum bend radius is generally specified for each hose in this catalog. This is the radius to which the hose can be bent in service without damage or appreciably shortening its life. The radius is measured to the inside of the curvature.

Formula to determine minimum hose length given bend radius and degree of bend required:
$\mathrm{L}=\frac{\mathrm{A}}{360^{\circ}} \times 2 \pi \mathrm{~B}$
Where:
$L=\quad$ Minimum length of hose to make bend (Bend must be made equally along this portion of hose length).
$A=\quad$ Angle of bend
$B=\quad$ Given bend radius of hose
$\pi=\quad 3.14$
Example: To make a $60^{\circ}$ bend at the hoses's rated minimum bend radius of 15 cm :
$L=\frac{60}{360^{\circ}} \times 2 \times 3.14 \times 15 \cong 16 \mathrm{~cm}$
Thus, the bend must be made over approximately 16 cm of hose length. The bend radius used must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bend radius than minimum may kink the hose and the result in damage and early failure.

## Oil Resistance

The definition of Oil Resistance is currently related to Tensile Retention \% and Volume Swell \% of the tested material after immersion in ASTM No. 3 Oil and in ASTM Fuel B for 70 hours at $100^{\circ} \mathrm{C}\left(212^{\circ} \mathrm{F}\right)$. The hose industry is currently classifying the materials as follows:

| Material Classification |  | Tensile Retention | Volume Swell |
| :---: | :---: | :---: | :---: |
| Maximum <br> Oil Resistance | ASTM No. 3 Oil | 80\% Min. | $25 \%$ Max. |
|  | ASTM Fuel B | $50 \%$ Min. | $35 \%$ Max. |
| Medium <br> Oil Resistance | ASTM No. 3 Oil | $40 \%$ Min. | $100 \%$ Max. |
|  | ASTM Fuel B | $35 \%$ Min. | $60 \%$ Max. |
| None <br> Oil Resistance | ASTM No. 3 Oil | Less Than 40\% | More Than 100\% <br> ASTM Fuel B <br> Less Than 35\% |

## Safety Features

Air hose - 4:1 Safety factor. Burst vs Working pressure
Water hose - 3:1 Safety factor. Burst vs Working pressure

Steam hose - 10:1 Safety factor. Burst vs Working pressure

## Chemical Cuide

## ZALLEAGONTMA

The Chemical Guides in this section are offered as a general indication of the compatibility of the various materials used in ALFAGOMMA ${ }^{\circledR}$ hose with the chemicals and fluids listed. The basis for the ratings in this guide include actual service experience, the advice of various polymer suppliers, and the considered opinion of our rubber chemists. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle. Some of the variables that come into play in the resistance of a compound to chemical attack are:

## 1. Temperature of the Material Transmitted:

Higher temperatures increase the effect of chemicals on rubber compounds. The increase varies with the polymer and the chemical. A compound quite suitable at room temperature might fail very quickly at higher temperatures.

## 2. Service Conditions:

A rubber compound usually swells when exposed to a chemical. With a given percent of swell, the hose tube may function satisfactorily if the hose is in a static condition, but fail quickly if the hose is subject to flexing.

## 3. The Grade or Blend of the Rubber Compound:

Basic rubber polymers are sometimes mixed or blended together to enhance a particular property for a specific service. The reaction to a particular chemical blend of polymers may, therefore, be somewhat different from the reaction to the single ones. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle.

## 4. Alfagomma ${ }^{\circledR}$ hoses are produced using silicone free release agents.

## KEY TO GENERAL CHEMICAL RESISTANCE CHART

Note: All data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless otherwise noted.
Blank = No Data
G = Good
C = Conditional
X = Unsatisfactory
E = Excellent
$\mathrm{F}=$ Fair
I = Insufficient Data

## GENERAL CHEMICAL RESISTANCE OF ALFAGOMMA ${ }^{\circledR}$ HOSE COMPOUNDS

| ASTM <br> Designation <br> D1418-93 | Common Name | Composition | General Properties |
| :--- | :--- | :--- | :--- |
| CIIR | Chlorobutyl | Chloro-Isobutene-Isoprene | Excellent resistance to high heat steam. Very good weathering <br> resistance, low permeability to air. Good physical properties. Poor <br> resistance to petroleum-based fluids. |
| CR | Neoprene | Chloroprene | Excellent weathering resistance. Flame retarding. Good oil <br> resistance. Good physical properties. |
| CSM | Hypalon | Chloro-sulfonated polyethylene | Excellent ozone, weathering and acid resistance. Good abrasion <br> and heat resistance. Can be compounded for good oil resistance. |
| EPDM | EPM or EPDM | Ethylene-propylene-diene-terpolymer | Good general purpose polymer. Excellent heat, ozone and <br> weather resistance. Not oil resistant. |
| NBR | BUNA-N or Nitrile | Nitrile-Butadiene | Excellent oil resistance. Good physical properties. |
| NR | Natural | Isoprene Rubber (Natural) | Excellent physical properties, including abrasion resistance. Not <br> oil resistant. |
| SBR | SBR | Good physical properties, including abrasion resistance. <br> Not oil resistant. |  |
| UHMWPE | UHMWPE | Excellent resistance to a majority of existing chemicals. Meets <br> FDA requirements for food and beverages. |  |
| XLPE | Cross Linked Polyethylene | Cross Linked Polyethylene Rubber | Excellent resistance to most solvents, oils and chemicals. Do not <br> confuse with chemical properties of standard <br> polyethylene. |
| Weight Polyethylene | Black conductive synthetic rubber, excellent resistance to Biofuel <br> based fluids. |  |  |

FOR APPLICATIONS INVOLVING INDUSTRIAL ACID CHEMICALS AND ALCOHOLS, PLEASE REFER TO T5050G AND T5090E CHEMICAL HOSES.

## HALFAGOKTMA <br> Chemical Resistance Chart

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

COMPOUND

| Chemical or Material Conveyed | $\underset{\bar{ভ}}{\underline{ভ}}$ | 뜬 | $\sum_{\mathcal{N}}$ | $\begin{array}{\|l\|l\|} \sum_{i}^{2} \\ \frac{1}{4} \end{array}$ | $\stackrel{\boldsymbol{c}}{\mathbf{\alpha}}$ | $\frac{\mathbf{c}}{\mathbf{2}}$ |  | $\stackrel{\rightharpoonup}{\stackrel{\rightharpoonup}{x}}$ | \| | ¢ <br> d <br> d <br> 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACETALDEHYDE | E | C | F | E | X | F | X | E | E | X |
| ACETIC ACID, GLACIAL | G | F | C | G | X | C | X | E | E | X |
| ACETIC ACID, 10\% | G | E | E | E | E | G | F | E | E | E |
| ACETIC ACID, 50\% | G | F | E | E | F | X | F | E | E | F |
| ACETIC ANHYDRIDE | C | G | E | G | X | F | X | E | E | X |
| ACETIC OXIDE (Acetic anhydride) | G | G | E | G | X | F | X | E | E | X |
| ACETONE | E | C | X | E | X | C | C | E | E | X |
| ACETONE CYANOHYDRIN | E | G | F | E | X | F |  |  |  | X |
| ACETONITRILE | E | E | G | E | X | G |  |  |  | X |
| ACETOPHENONE | G | X | X | E | X | C | X | E | E | X |
| ACETYL ACETONE | E | X | X | E | X | X | X |  |  | X |
| ACETYL CHLORIDE | X | X | C | X | X | X | X |  |  | X |
| ACETYL OXIDE (Acetic anhydride) | G | G | E | G | X | F |  | E | E | X |
| ACETYLENE | E | E | C | E | E | C | F | E | E | E |
| ACETYLENE DICHLORIDE | F | X | X | C | X | X | X |  |  | X |
| ACETYLENE TERACHLORIDE | X | C | X | C | X | X |  |  |  | X |
| ACROLEIN | E | G | G | E | - | G | F |  |  | F |
| ACRYLONITRILE | X | X | C | E | X | C | F | E | E | X |
| ACRYLIC ACID |  | X | G | X | X | X |  |  |  | X |
| ADIPIC ACID | X | E | G | C | E | E |  | E | E | E |
| AIR, $+300^{\circ} \mathrm{F}$ | G | G | G | G | - | X | X |  |  | G |
| ALK-TRI | X | X | X | X | X | X |  |  |  | X |
| ALLYL ALCOHOL | E | E | E | E | E | E |  | E | E | E |
| ALLYL BROMIDE | X | X | X | X | X | X |  |  |  | X |
| ALLYL CHLORIDE | C | X | X | X | G | X | E | E | F | G |
| ALUM (Aluminium potassium sulfate) | E | E | E | G | C | E |  | E | E | C |
| ALUMINIUM ACETATE | G | C | F | E | C | E | X |  |  | C |
| ALUMINIUM CHLORIDE | E | E | E | E | E | E | E | E | E | E |
| ALUMINIUM FLUORIDE | E | E | E | E | E | E | E | E | E | E |
| ALUMINIUM FORMATE | G | E | X | E | X | X |  |  |  | X |
| ALUMIIIUM HYDROXIDE | E | E | E | E | E | - | G | E | E | E |
| ALUMINIUM NITRATE | E | E | E | E | E | E | E |  |  | E |
| ALUMINIUM SULFATE | A | G | E | E | E | E | G | E | E | E |
| ALUMUS-NH3-CR-K |  |  |  |  |  |  |  |  |  |  |
| AMINES-MIXED |  | C | X | - | X | C | G |  |  | X |
| AMINOBENZENE (Aniline) | E | X | C | C | $x$ | X | X | E | E | X |
| AMINODIMETHLLBENZENE | G | X | F | C | C | X |  |  |  | 0 |
| AMINOETHANE (Ethylamine) | G | C | F | E | C | C | X | E | E | C |
| AMINOXYLENE | G | X | X | E | C | X |  |  |  | - |
| AMMONIUM CARBONATE | E | E | C | E | C | E | E |  |  | C |
| AMMONIUM CHLORIDE | E | E | E | E | G | E | E | E | E | a |
| AMMONIUM HYDROXIDE | G | E | E | E | , | G | X | E | E | C |
| AMMONIUM NITRATE | E | E | E | E | E | E | E | E | E | E |
| AMMONIUM PHOSPHATE, DIBASIC | E | E | E | E | E | E | E | E | E | E |
| AMMONIUM SULFATE | E | E | E | E | E | E | G | E | E | E |
| AMMONIUM SULFIDE | E | E | E | E | C | E | G | E | E | C |
| AMMONIUM THIOSULFATE | E | E | E | E | C | E |  |  |  | C |
| AMYL ACETATE | G | X | X | C | X | C | X | E | E | X |
| AMYL ACETONE | G | X | X | G | X | X |  |  |  | X |
| AMYL ALCOHOL | E | C | E | E | C | C | G | E | E | C |
| AMYL BROMIDE | X | X | X | C | X | X |  |  |  | X |
| AMYL CHLORIDE | X | X | X | X | X | X | X | E | E | X |
| AMYL ETHER | X | X | F | X | C | X |  |  |  | C |
| AMYLAMINE | G | C | F | X | F | F |  |  |  | F |

COMPOUND

| Chemical or Material Conveyed | $\underline{\bar{ভ}}$ | 뚤 | $\sum_{\mathcal{S}}$ | $\sum_{i}^{2}$ | $\begin{array}{\|c} \mathbf{c} \\ \mathbf{y} \\ \hline \end{array}$ | $\frac{\mathbf{q}}{\mathbf{z}}$ | $\stackrel{\boldsymbol{c}}{\boldsymbol{\infty}}$ | $\begin{array}{\|l\|l\|} \stackrel{\rightharpoonup}{2} \\ \frac{\rightharpoonup}{x} \end{array}$ |  | ¢ <br> d <br> ¢ <br> 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ANETHOLE | X | X | X | X | X | X |  |  |  | X |
| ANILINE | E | X | C | C | X | X | X | E | E | X |
| ANILINE DYES | G | C | G | C | X | C | G | E | E | X |
| ANILINE OIL | G | X | C | C | X | X | X | E | E | X |
| ANIMAL FATS | C | C | F | C | E | X | X | E | E | E |
| ANTIMONY PENTACHLORIDE |  | C | X | C | X | X |  | E | E | X |
| AQUA REGIA | C | X | C | C | X | X | X | X | X | X |
| ARGON | G | G | X | E | E | X | C |  |  | E |
| ARSENIC ACID | E | E | E | E | E | E | E | E | E | E |
| ASPHALT | X | C | F | X | C | X | X | E | E | C |
| ASTM FUELA | X | C | C | X | E | X | X |  |  | E |
| ASTM FUEL B | X | X | X | X | C | X | X |  |  | C |
| ASTM FUEL C | X | X | X | X | C | X | X |  |  | C |
| ASTM OIL N0.1 | X | E | C | X | E | X | X | E | E | E |
| ASTM OIL N0. 2 | X | C | X | X | E | X | X | E | E | E |
| ASTM OIL N0. 3 | X | C | C | X | E | X | X | E | E | E |
| ASTM OIL N0.4 | X | X | X | X | C | X | X |  |  | C |
| AUTOMATIC TRASMISSION FLUID | X | C | C | X | E | X | X |  |  | E |
| BANANA OIL | C | X | C | C | X | X |  |  |  | X |
| BARIUM CHLORIDE | E | E | E | E | E | E | E | E | E | E |
| BARIUM HYDROXIDE | E | E | E | E | E | E | E | E | E | E |
| BARIUM SULPHIDE | E | E | E | E | E | E | G | E | E | E |
| BEER | E | E | E | E | E | E | E | E | E | E |
| BEET SUGAR LIQUORS | E | C | E | E | E | E | E | E | E | E |
| BENZAL CHLORIDE | G |  |  |  | X |  |  |  |  | X |
| BENZALDEHYDE | G | X | X | E | X | X | X | E | E | X |
| BENZENE | X | C | C | C | X | X | X | E | F | X |
| BENZENE CARBOXYLIC ACID | E | E | C | C | X | X |  |  |  | X |
| BENZINE (Gasoline) | X | C | C | X | E |  | X | E | E | E |
| BENZOIC ACID | C | E | C | C | X | X | X |  |  | X |
| $\frac{\text { BENZOL (Benzene) }}{\text { BENZOTRICHLORIDE }}$ |  | C | C | C X |  |   <br>  $x$ <br>   | X | E | F | X |
|  |  | X | X | E | X | X |  |  |  | X |
| BENZYL ACETATE | E | E | G | E | X | X |  |  |  | X |
| BENZYL ALCOHOL | E | C | C | C | X | X | X |  |  | X |
| BENZYL CHLORIDE | X | X | X | X | X | X | X |  |  | X |
| BENZYL ETHER (Dibenzyl Ether) | G | X | X | C | X | X | X |  |  | X |
| BIODIESEL (BD100 0 B100) |  |  |  |  |  |  |  |  |  |  |
| BIODIESEL (BD20 0 B20) |  |  |  |  |  |  |  |  |  | E |
| BIOETHANOL (E85) |  |  |  |  |  |  |  |  |  |  |
| BIS (2-CLOROETHYL) ETHER |  |  |  |  |  |  |  |  |  |  |
| BLACK SULFATE LIQUOR | G | G | G | G | G | G | G | E | E | G |
| BLEACH | E | C | E | E | X | C | X | G | F | X |
| BORAX SOLUTION | E | E | E | E | C | C | G | E | E | C |
| BORIC ACID | E | E | E | E | E | , | E | E | E | E |
| BRAKE FLUID (HD-557)12 DAYS | E | C | C | E | C | X | E |  |  | C |
| BRINE | E | E | E | E | E | E |  | E | E | E |
| BROMACIL |  |  |  |  |  |  |  |  |  |  |
| BROMOBENZENE | X | X | X | X | X | X | X |  |  | X |
| BROMOCHLOROMETANE | C | X | X | G | X | X |  | F | F | X |
| BROMOETHANE (Ethyl bromide) | C | X | X | X | C | C | X | E | E | C |
| BROMOTOLUENE | X |  | X |  | X | X |  |  |  | X |
| BUGDIOXANE |  |  |  |  |  |  |  |  |  |  |
| BUNKER OILBUTADIENE | X | G | C | X | E | X | X |  | E E E X |  |
|  | X | X | G | X | X | X | X | E |  |  |

## Chemical Resistance Chart RaLFAGOMMA

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]:
E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

| Chemical or Material Conveyed | $\underset{\bar{ভ}}{ }$ | ¢ | $\underset{\mathcal{N}}{\mathbf{N}}$ | $\sum_{i}$ | $\left.\begin{array}{\|c\|c\|} \mathbf{c} \\ \mathbf{y} \end{array} \right\rvert\,$ | $\underset{\mathbf{c}}{\mathbf{\Sigma}}$ | $\stackrel{\underset{\sim}{c}}{\stackrel{8}{6}}$ |  | $\sum_{i=1}^{\omega}$ | $\left\lvert\, \begin{gathered} \mathbb{S} \\ \underset{\substack{6}}{*} \end{gathered}\right.$ | Chemical or Material Conveyed | $\underset{\bar{ভ}}{\underline{ভ}}$ | ¢ | $\sum_{\mathcal{K}}$ | $\sum_{0}^{\Sigma}$ | $\stackrel{\text { cu }}{\mathbf{c}}$ | $\underset{\sim}{\mathbf{c}}$ |  | $\stackrel{\underset{2}{2}}{\stackrel{\rightharpoonup}{\boldsymbol{x}}}$ | $\left\|\sum_{i}^{\omega}\right\|$ | ¢ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BUTANE | X | E | C | X | E | X | X | E | E | E | CHLORODANE (Chlordane) | X | C | C | X | C | X | X |  |  | C |
| BUTANOIC ACID | X | X | C | C | C | C |  |  |  | C | CHLOROETHYL BENZENE | X | X | X | X | C | X |  |  |  | C |
| BUTANOL (Butyl alcohol) | C | E | E | C | E | E | E | E | E | E | CHLOROFORM | X | X | X | X | X | X | X | F | F | X |
| BUTANONE | E | X | X | E | X | X | X | E | E | X | CHLOROPENTANE | X | X | X | X | X | X |  |  |  | X |
| BUTOXYETHANOL | C | X | G | E | C | X |  |  |  | C | CHLOROSULFONIC ACID | X | X | X | X | X | X | X | F | X | X |
| BUTYL ACETATE | C | X | X | C | X | X | X | E | E | X | CHLOROTOLUENE | X | X | X | X | X | X | X |  |  | X |
| BUTYL ACRYLATE | X | X | X | C | X | X | X | E | E | X | CHLOROX | C | C | C | G | C | X | X |  |  | C |
| BUTYL ALCOHOL | C | E | E | C | E | E | E | E | E | E | CHROME PLATING SOLUTIONS | C | X | X | C | X | X | X |  |  | X |
| BUTYL ALDEHYDE (Butyraldehyde) | C | X | X | C | X | X | X | E | E | X | CHROMIC ACID | C | X | E | C | X | C | X | E | E | X |
| BUTYL BENZYL PHTHALATE | E | E | X | E | X | X |  | E | E | X | CHROMIUM TRIOXIDE (Chromic oxide) | G | X | E | C | X | X | X |  |  | X |
| BUTYL CARBITOL | E | X | C | E | X | X | X |  |  | X | CINNAMENE (Vinylbenzene) | X | X | X | X | C | X | X |  |  | C |
| BUTYL CELLOSOLVE | C | X | G | C | C | X | X | E | E | C | CIS-9-OCTADECENOIC ACID (Oleic acid) | X | C | C | C | G | X | X | E | E | G |
| BUTYL CHLORIDE | F | X | X | X | X | X |  |  |  | X | CITRIC ACID | E | E | E | E | E | E | E | E | E | E |
| BUTYL ETHER | C | C | X | C | X | X | X | E | E | X | COAL TAR OIL (Coal oil) | X | G | F | X | E | X | X | E | E | E |
| BUTYL ETHER ACETALDEHYDE | G | X | X | X | X | X |  |  |  | X | COAL TAR | X | C | C | X | C | X | X | E | E | C |
| BUTYL ETHYL ETHER | X | X | C | F | G | X |  |  |  | G | COAL TAR NAPHTHA | X | X | X | X | X | X |  | E | E | X |
| BUTYL OLEATE | C | X | X | C | X | X | x |  |  | X | COCONUT OIL | C | C | C | C | E | X | X | E | E | E |
| BUTYL PHTHALATE | G | X | X | E | X | X | X | E | E | X | COKE OVEN GAS | C | X | C | X | X | C | X | E | E | X |
| BUTYL STEARATE | C | X | X | X | C | X | X | E | E | C | COOLANOL (Monsanto) | X | C | C | X | E | X | X |  |  | E |
| BUTYLENE | X | C | C | X | C | X | X |  |  | C | COPPER CHLORIDE | E | C | C | E | E | E | E | E | E | E |
| BUTYRALDEHYDE | C | X | X | C | X | X | X | E | E | X | COPPER CYANIDE | E | E | E | E | E | E | E | E | E | E |
| BUTYRIC ACID | X | X | C | C | C | C | X | E | E | C | COPPER HYDRATE | E |  | G |  | G | F |  |  |  | G |
| BUTYRIC ANHYDRIDE | F | G | G | E | C | F |  |  |  | C | COPPER HYDROXIDE (Copper hydrate) | E |  | G |  | G | F |  |  |  | G |
| CADMIUM ACETATE | E |  | E |  | X | X |  |  |  | X | COPPER SULFATE | C | E | E | E | E | C | G | E | E | E |
| CALCIUM ALUMINATE | E |  | E |  | E | E |  |  |  | E | CORN OIL | C | C | C | C | E | X | X | E | E | E |
| CALCIUM BICHROMATE | E | E | F | E | C |  |  |  |  | C | COTTONSEED OIL | C | C | C | C | E | X | X | E | , | E |
| CALCIUM BISULFIDE | X | E | F | E | C | X | G |  |  | C | CREOSOTE | X | C | X | X | C | X | X | E | E | C |
| CALCIUM CHLORIDE | E | E | E | E | E | E | E | E | E | E | CRESOLS | X | X | X | X | X | X | X | E | E | X |
| CALCIUM HYDROXIDE | E | E | E | E | E | E | E | E | E | E | CRESYLIC ACID | X | X | X | X | X | X | X | E | E | X |
| CALCIUM HYPOCHLORITE | E | C | E | E | C | C | X | E | E | C | CROTONALDEHYDE | E | X | X | E | X | X | F | E | E | X |
| CALCIUM NITRATE | E | E | E | E | E | E | E |  |  | E | CRUDE OIL | X | C | C | X | C | X | X | E | E | O |
| CALCIUM SULFIDE | E | E | E | E | E | C | X |  |  | E | CUMENE | X | X | X | X | X | X | X |  |  | X |
| CALCIUM ACETATE | E | C | C | E | C | E | X |  |  | C | CUPRIC CARBONATE |  |  |  |  |  |  |  |  |  |  |
| CAPRYLIC ACID | F |  | G |  | F | C |  |  |  | F | CUPRIC HYDROXIDE (Copper hydroxide) | E |  | G |  | G | F |  |  |  | G |
| CARBAMIDE (Urea) | E | G | E | E | G | E |  | E | E | G | CUPRIC NITRATE (Copper nitrate) | E | E | E | C | C | G |  | E | E | C |
| CARBITOL | C | C | C | C | C | C | E | E | E | C | CUPRIC SULFATE (Copper sulfate) | C | , | , | E | E | C | G | E | E | E |
| CARBOLIC ACID PHENOL | C |  | C |  |  | C |  |  |  |  | CUTTING OIL | X | C | C | X | E | C | X |  |  | E |
| CARBON DIOXIDE | E | G | E | G | E | G | G | E | E | E | CYCLOHEXANE | X | x | C | X | E | X | X | E | E | E |
| CARBON DISULFIDE (Carbon bisulfide) | X | X | X | X | X | X |  | C | C | X | CYCLOHEXANOL | X | C | C | X | G | C | X | E | E | G |
| CARBON MONOXIDE | E | C | C | E | E | C | G | E | E | E | CYCLOHEXANONE | C | X | x | C | x | X | X | E | E | X |
| CARBON TETRACHLORIDE | X | X | X | X | X | X |  | E | E | X | CYCLOPENTANE | X | C | X | X | G | X |  |  |  | G |
| CARBONIC ACID | E | E | E | E | C | E | G | E | E | C | CYCLOPENTANOL |  |  |  |  |  |  |  |  |  |  |
| CASTOR OIL | C | E | E | C | E | E | E | E | E | E | CYCLOPENTANONE | X |  | X |  | X | X |  |  |  | X |
| CAUSTIC SODA | E | G | E | G | C | E | E | E | E | C | CYCLOPENTIL ALCOHOL (Cyclopentanol) |  | F |  | C | X |  |  |  |  | X |
| CELLOSOLVE ACETATE | C | X | X | G | X | C | X | E | E | X | D-FURALDEHYDE (Furfural) | C | F | C | E | G | X |  |  |  | G |
| CELLUGUARD | E | E | E | E | E | E | E |  |  | E | DDT IN KEROSENE | X | C | C | X | E | X | X |  |  | E |
| CETYLIC ACID (Palmitic acid) | C | G | C | C | E | C | G | E | E | E | DECAHYDRONAPHTHALENE (Decalin) | X | X | X | X | X | X | E | E | E | X |
| CHINA WOOD OIL (Tung oil) | C | C | C | X | E | X | X | E | E | E | DECAHYDROXYNHAPHTHALENE |  |  |  |  |  |  |  |  |  |  |
| CHLORINATED SOLVENTS | X | X | X | X | X | X | X | E | E | X | DECALIN | X | X | X | X | X | X | E | E | E | X |
| CHLORO-2-PROPANONE | C |  | X |  |  | X |  |  |  |  | DECYL ALCOHOL (Decanol) | X | X | C | X | E | X |  |  |  | E |
| CHLOROACETIC ACID | C | X | G | C | X | X | X | E | E | X | DECYL ALDEHYDE | F |  | X | X | X | X |  |  |  | X |
| CHLOROACETONE | C | X | X | E | X | X | X | E | E | X | DECYL BUTYL PHTHALATE | E |  | X |  | X | X |  |  |  | X |
| CHLOROBENZENE | x | X | X | X | X | X | X | E | E | X | DECIL CARBINOL |  |  |  |  |  |  |  |  |  |  |
| CHLOROBUTANE | F | X | X | X | X | X |  |  |  | X | DETERGENT, WATER SOLUTION | E | C | C | E | E | E | G | E | E | E |

COMPOUND

COMPOUND

CYCLOHEXANE

CYCLOPENTANOL

## 保

DECAHYDROXYNHAPHTHALENE

FOR APPLICATIONS INVOLVING INDUSTRIAL ACID CHEMICALS AND ALCOHOLS, PLEASE REFER TO T5050G AND T5090e CHEMICAL HOSES.

## HALEAGONTMA <br> Chemical Resistance Chart

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

COMPOUND

| Chemical or Material Conveyed | $\underset{\bar{ভ}}{\underline{ভ}}$ | 뚠 | $\sum_{\mathcal{K}}$ | $\begin{aligned} & \sum_{i}^{2} \\ & \frac{2}{4} \end{aligned}$ |  | $\underset{\sim}{\mathbf{q}}$ | $\begin{gathered} \boldsymbol{\infty} \\ \mathbf{\infty} \\ \hline \end{gathered}$ | $\begin{array}{\|c\|c\|} \stackrel{\rightharpoonup}{2} \\ \stackrel{\rightharpoonup}{x} \end{array}$ | $\sum^{\text {2 }}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DEVELOPING FLUID (PHOTO) | C | E | E | C | E | E | G |  |  | E |
| DEXTRON | X | C | X | X | E | X | X |  |  | E |
| DI (2ETHYLHEXYL) ADIPATE <br> (Dioctyl adipate) | E | X | X | G | X | X |  | G | G | X |
| DI (2ETHYLHEXYL) PHTHALATE <br> (Dioctyl phthalate) | C | X | X | C | X | X | X | E | E | X |
| DI-ISO-BUTYLENE | X | C | X | X | C | X | X | E |  | C |
| DII-ISO-DECYL PHTHALATE | E | X | X | E | X | X |  |  |  | X |
| DI-ISO-PROPANOLAMINE | E | G | F | E | G | G |  |  |  | G |
| DII-ISO-PROPYL ETHER | X | C | C | X | G | X |  | E | E | G |
| DI-ISO-PROPYL KETONE | E | X | X | E | X | X | X | E |  | X |
| DI-P-MENTHA-1,8-DIENE (Cinene) | X | X | X | X | C | X |  |  |  | C |
| DIACETONE ALCOHOL | E | F | C | E | X | X | X | E | E | X |
| DIACETYLMETHANE (Acetylacetone) | E | X | X | E | X |  | X |  |  | $x$ |
| DIALLYLPHTHALATE (Diallyl phthalate) |  |  |  |  |  |  |  |  |  |  |
| DIAMMONIUM ORTHOPHOSPHATE |  | E |  | E | E |  |  |  |  | E |
| DIAMYL NAPHTHALENE | E |  | X |  |  | X |  | E | E |  |
| DIAMYLAMINE | E | C | C | E | G | G | X |  |  | G |
| DIAMYLENE | X | X | X | X |  | X |  |  |  |  |
| DIAMYLPHENOL | X |  | X |  | X | X |  | E | E | $\chi$ |
| DIBENZYL ETHER | C | X | X | C | X | X | X |  |  | X |
| DIBROMOBENZENE | X | X | X | X | X | X |  |  |  | X |
| DIBROMOMETHANE (Methylene bromide) | $x$ | X | X | C | X | X |  |  |  | X |
| DIBUTYL ETHER | C | C | X | C | X | X | X | , | E | $\chi$ |
| DIBUTYL PHTHALATE | C | X | X | C | X | $x$ | X | E | E | X |
| DIBUTYL SEBACATE | C | X | X | C | X | X | X | E | E | $\chi$ |
| DIBUTYLAMINE | x | C | C | F | X | X | X |  |  | X |
| DICALCIUM PHOSPHATE | E | E | E | E | E | E |  |  |  | E |
| DICHLOROETHYLENE (1,2-Dichloroethene) | C | X | X | C | X | X |  | F | F | X |
| DICHLOROACETIC ACID | , | X | X | X | X | X | X | E | E | X |
| DICHLOROBENZENE | X | X | X | X | X | X | X |  |  | $\chi$ |
| DICHLOROBUTANE | X | X | X | X | x | X | X |  |  | C |
| DICHLORODIFLUOROMETHANE | C | C | C | C | C | C | E | E | G | C |
| DICHLOROETHANE | C | X | X | X | X | X | X | E | E | X |
| DICHLOROETHYL ETHER | X | X | X | X | X | X |  |  |  | X |
| DICHLOROHEXANE | $x$ | X | X | X | X | X |  |  |  | X |
| DICHLOROMETHANE | X | X | X | X | X | X | X |  |  | $\chi$ |
| DICHLOROPENTANE | $x$ | X | X | X | X | X | X |  |  | X |
| DICHLOROPROPANE | X | X | X | X | F | X |  | G | G | F |
| DICHLOROPROPENE | X | X | X | X | C | X |  | G | G | C |
| DICHLOROTOLUENE |  |  |  |  |  |  |  |  |  |  |
| DIESEL OIL | X | C | C | X | E | X | X | E | E | E |
| DIETHANOL AMINE | E | G | F | G | C | G | X |  |  | C |
| DIETHYLBENZENE | X |  | X |  |  | X | X |  |  |  |
| DIETHYL ETHER | X | X | X | X | X | $x$ | x | E | E | X |
| DIETHYL KETONE | G | X | X | G | X | X |  | E | E | X |
| DIETHYL OXALATE | X | X | X | X | X | F |  |  |  | X |
| DIETHYL PHTHALATE | X | X | X | F | X | X |  | E | E | X |
| DIETHYL SEBACATE | G | X | F | F | C | X | X |  |  | c |
| DIETHYL SULFATE | C | E | X | E | X | X | E |  |  | X |
| DIETHYL AMINE | C | C | C | C | C | C | G | E | E | C |
| DIETHYLENE GLYCOL | E | E | E | E | E | E | E | E | E | E |
| DIETHYLENE OXIDE | X | X | X | E | X | X |  |  |  | X |
| DIETHYLENETRIAMINE | E | X | F | E | G | G | X |  |  | G |

COMPOUND

| Chemical or Material Conveyed | $\stackrel{\cong}{\bar{\sigma}}$ | 뜬 | $\sum_{\substack{6}}$ | $\begin{aligned} & \sum_{0} \\ & \text { 문 } \end{aligned}$ | $\frac{\underset{\sim}{\boldsymbol{p}}}{2}$ | 뜰 | $\stackrel{\oplus}{\infty}$ | $\stackrel{\text { 山 }}{\stackrel{1}{x}}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DIETHYLTRIAMINE |  |  |  |  |  |  |  |  |  |  |
| DIHYDROXY SUCCINIC ACID | G | G | E | G | G | E |  |  |  | G |
| DIHYDROXYDIETHYL ETHER <br> (Diethylene glycol) | E | E | E | E | E | E |  | E | E | E |
| DIISOBUTYL KETONE | G | X | X | E | X | X | X | E | E | X |
| DIISODECYL PHTHALATE | E | X | X | E | X | X |  | E | E | X |
| DIISOOCTYL ADIPATE | E | X | X | E | X | X |  |  |  | X |
| DIISOOCTYL PHTHALATE | E | X | X | G | X | X |  | E | E | X |
| DIMETHYL CARBINOL | E | G | E | E | C | E |  | E | E | C |
| DIMETHYL KETONE | E | C | X | E | X | C | F | E | E | X |
| DIMETHYL PHTHALATE | C | X | X | C | X | X | X | E | E | X |
| DIMETHYL SULFATE | G | X | X | X | X | X |  | E | E | X |
| DIMETHYL SULFIDE | F | X | X | X | X | X |  |  |  | X |
| DIMETHYL-3-PENTANONE |  |  |  |  |  |  |  |  |  |  |
| DIMETHYL-4-HEPTANONE |  |  |  |  |  |  |  |  |  |  |
| DIMETHYLAMINE | G | X | X | E | F | G | X | E | E | F |
| DIMETHYLANILINE | G | X | X | E | X | X | X |  |  | X |
| DIMETHYLBENZENE | X | X | X | X | X | X | X |  |  | X |
| DIMETHYLBUTANE (iso-Pentane) | X |  | X |  |  | X |  |  |  |  |
| DIOCTYL ADIPATE | E | X | X | G | X | X |  |  |  | X |
| DIOCTYL PHTHALATE | C | X | X | C | X | X | X | E | E | X |
| DIOXALANE |  |  |  |  |  |  | X |  |  |  |
| DIOXANE | C | X | X | C | X | X | X | E | E | X |
| DIPENTENE | X | X | X | X | C | X | X |  |  | C |
| DIPENTYLAMINE (Diamylamine) | E | C | C | E | G | G | X |  |  | G |
| DIPROPYLAMINEOLAMINE |  |  |  |  |  |  |  |  |  |  |
| DIPROPYLENE GLYCOL | E | E | E | E | E | E |  |  |  | E |
| DISODIUM PHOSPHATE | E | E | E | E | E | E |  |  |  | E |
| DIVINYL BENZENE | X | X | X | X | X | X | X |  |  | X |
| DOWELL INHIBITOR |  |  |  |  |  |  |  |  |  |  |
| DOWFAX 2A1 SOLVENT |  |  |  |  |  |  |  |  |  |  |
| DOWFAX 2A1 TA |  |  |  |  |  |  |  |  |  |  |
| DOWFAX 6A1 SOLVENT |  |  |  |  |  |  |  |  |  |  |
| DOWFAX 6A1 TA |  |  |  |  |  |  |  |  |  |  |
| DOWTHERMN, A AND E | X | X | C | X | X | X | X |  |  | X |
| DRY CLEANING FLUIDS | X | X | X | X | C | X | X |  |  | C |
| DUCGKIRIOEBAANE |  |  |  |  |  |  |  |  |  |  |
| DURD AW-16,31 |  |  |  |  |  |  |  |  |  |  |
| DUR0 FR-HD |  |  |  |  |  |  |  |  |  |  |
| ETHANOIC ACID (Acetic acid) |  | C |  | C | C |  | G | E | E | C |
| ETHANOL (Grain alcohol) | E | E | E | E | C | E | E | E | E | E |
| ETHANOLAMINE | C | C | C | E | C | C | X |  |  | C |
| ETHERS | X | X | X | X | F | X | X | E | E | F |
| ETHYL ACETATE | C | X | X | C | X | X | X | E | E | X |
| ETHYL ACETOACETATE | C | X | X | C | X | C | F |  |  | X |
| ETHYL ACETONE (2-Pentanone) | G | X | X | G | X | X |  |  |  | X |
| ETHYL ACRYLATE | C | X | X | C | X | X | X |  |  | X |
| ETHYL ALCOHOL | E | E | E | E | C | E | E | E | E | E |
| ETHYL ALDEHYDE | E | X | F | E | X | C |  | E | E | X |
| ETHYL ALUMINIUM DICHLORIDE | X |  | X |  | X | X |  |  |  | X |
| ETHYL BENZENE | X | X | X | X | X | X | X | E | E | X |
| ETHYL BROMIDE | X | X | X | X | C | C | X | E | E | C |
| ETHYL BUTYL ACETATE | E |  | G |  | X | X |  |  |  | X |
| ETHYL BUTYL ALCOHOL (Ethylbutanol) | E |  | E |  |  | E |  |  |  |  |

## Chemical Resistance Chart RALFAGOMMA

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]:
E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

COMPOUND

| Chemical or Material Conveyed | $\mathfrak{\overline { ভ }}$ | 뚠 | $\sum_{\mathcal{K}}$ | $\begin{aligned} & \sum_{\underset{\sim}{2}} \\ & \hline \mathbf{L} \end{aligned}$ | $\left.\begin{array}{\|l\|} \mathbf{q} \\ \mathbf{y} \end{array} \right\rvert\,$ | $\frac{\mathbf{c}}{\mathbf{2}}$ | $\begin{gathered} \stackrel{\sim}{\mathrm{m}} \\ \mathbf{\omega} \end{gathered}$ | $\begin{array}{\|l\|} \stackrel{u}{2} \\ \frac{\rightharpoonup}{x} \end{array}$ | $\sum_{\bar{I}}^{\stackrel{\omega}{2}}$ | $\left\|\begin{array}{c} \underset{1}{2} \\ \underset{\sim}{0} \\ 1 \end{array}\right\|$ | Chemical or Material Conveyed | $\underline{\bar{ভ}}$ | ¢ | $\sum_{\mathcal{N}}$ | $\begin{aligned} & \sum_{i}^{2} \\ & \mathbf{W} \end{aligned}$ | $\stackrel{\text { c }}{\stackrel{y}{2}}$ | $\stackrel{\cong}{\mathbf{z}}$ | $\underset{\sim}{\boldsymbol{\sim}}$ | $\stackrel{山}{\stackrel{\rightharpoonup}{2}}$ | $\sum^{4}$ | ¢ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ETHYL CELLULOSE | C | C | C | C | C | C | G | E | E | C | GLACIAL ACRYLIC ACID (Acrylic acid) | X | X | G | X | X | X |  |  |  | X |
| ETHYL CHLORIDE | E | X | C | C | E | C | G | E | E | E | GLUCONIC ACID | F | E | G | E | C | X |  |  |  | C |
| ETHYL DICHLORIDE | F | X | X | X | X | X | X | E | E | X | GLUCOSE | E | C | E | E | E | E | E | E | E | E |
| ETHYL DIISOBUTYLTHIO-CABARMATE |  |  |  |  |  |  |  |  |  |  | GLYCERINE | E | E | E | E | E | E | E | E | E | E |
| ETHYL ETHER | X | X | X | X | X | X | X | E | E | X | GLYCEROL | E | E | E | E | E | E | E | E | E | E |
| ETHYL FORMATE | C | C | C | C | X | X | X |  |  | X | GLYCOGENIC ACID (Gluconic acid) | F | E | G | E | F | X |  |  |  | F |
| ETHYL IODIDE | F | X | X | F | X | x |  | E | E | X | GLYCOLS | E | E | E | E | E | E | E | E | E | E |
| ETHYL OXALATE | X | X | X | E | X | E | X |  |  | X | GLYCONIC ACID (Gluconic acid) | F | E | G | E | F | X |  |  |  | F |
| ETHYL PHTHALATE | X | X | X | F | X | X |  | E | E | X | GLYCLYL ALCOHOL |  |  |  |  |  |  |  |  |  |  |
| ETHYL SILICATE | E | E | C | E | E | C | G |  |  | E | GREASE | X | F | C | X | E | X | X |  |  | E |
| ETHYL-N-BUTYL KETONE | G | X | X | G | X | X |  |  |  | X | GREEN SULPHATE LIQUOR | E | C | G | E | C | C | G |  |  | C |
| ETHYL-1-BUTANOL | E | E | E | E | E | E |  |  |  | E | HALON 1211 |  |  |  |  |  |  |  |  |  |  |
| ETHYLAMINE | C | C | F | E | C | C | X |  |  | C | HELIUM | E | E | E | E | E | E | E |  |  | E |
| ETHYLENE CHLOROHYDRIN | C | C | C | C | X | C | G |  |  | X | HEPTALDEHYDE | C | C | X | C | E | X | X |  |  | E |
| ETHYLENE DIAMINE | E | E | C | E | C | C | G | E | E | C | HEPTANAL | C | C | X | C | E | X | X |  |  | E |
| ETHYLENE DIBROMIDE | C | X | X | C | X | X | X | F | F | X | HEPTANE | X | C | C | X | E | X | X |  | E | E |
| ETHYLENE DICHLORIDE | C | X | X | X | X | X | X | F | F | X | HEPTANE CARBOXYLIC ACID |  |  |  |  |  |  |  |  |  |  |
| ETHYLENE GLYCOL MONOETHYL ACETATE |  |  |  |  |  |  |  |  |  |  | HEPTANOIC ACID | X | C | C | X | E | X |  |  |  | E |
| ETHYLENE GLYCOL MONOBUTYL ETHER | E | X | C | E | F | X | X | E | E | F | HEPTANONE |  |  |  |  |  |  |  |  |  |  |
| ETHYLENE GLYCOL MONOETHYL ETHER |  |  |  |  |  |  |  |  |  |  | HEXADECANOIC ACID | G | X | X | G | E | E | G | E | E | E |
| (Ethoxyethanol) | C | X | X | c | C | X |  | E | E | C | HEXALDEHYDE | C | C | C | C | X | X | X | E | E | X |
| ETHYLENE GLYCOL MONOEHEXIL ETHER |  |  |  |  |  |  |  |  |  |  | HEXANE | X | C | C | X | E | X | X | E | E | E |
| ETHYLENE GLYCOL | E | E | E | E | E | E | E | E | E | E | HEXANOL | C | C | C | C | C | E | E | E | E | C |
| ETHYLENE OXIDE | C | X | X | C | X | X | X | E | E | X | HEXENE | X | C | C | X | C | X | X |  |  | C |
| FATTY ACIDS | C | C | C | X | C | X | X | E | G | C | HEXYL ALCOHOL | C | C | C | C | C | E | E | E | E | C |
| FERRIC BROMIDE | E |  | E |  | E | E |  |  |  | E | HEXYL METHYL KETONE |  |  |  |  |  |  |  |  |  |  |
| FERRIC CHLORIDE | E | C | C | E | E | E | E |  | E | E | (Methyl hexyl ketone) | G | C | X | G | X | X |  |  |  | X |
| FERRIC NITRATE | E | E | E | E | E | E | E |  | E | E | HEXYLAMINE | G | G | F | G | F | F |  |  |  | F |
| FERRIC SULFATE | E | E | E | E | E | E | E |  | E | E | HEXYLENE GLYCOL | E | E | E | F | C | E |  |  |  | C |
| FERROUS ACETATE | E | X | E | G | X | X |  |  |  | X | HISTOWAX (Paraffin Wax) | X |  | C |  |  | X |  |  |  |  |
| FERROUS CHLORIDE | E | E | E | E | E | E |  |  | E | E | HYDRAULIC \& MOTOR OIL | C | c | C | C | C | X | X | E | E | C |
| FERROUS SULFATE | E | E | E | E | E | E | E |  | E | E | HYDRAZINE | C | C | C | E | C | C | G |  |  | C |
| FLUOROBORIC ACID | C | E | E | E | E | E | E | E | E | E | HYDROBROMIC ACID | E | C | E | E | X | E | X | E | E | X |
| FLUORINE | X | X | X | E | X | X |  | G | G | X | HYDROCLORIC ACID | C | C | C | C | C | C | X | C | C | C |
| FLUOROSILICIC ACID | E | E | E | E | E | E | G | E | E | E | HYDROCYANIC ACID | C | C | E | E | C | C | G |  |  | C |
| FORMALDEHYDE | C | C | C | C | C | C | G | E | E | C | HYDROFLUORIC ACID | C | C | E | C | C | C | X | E | E | C |
| FORMALIN (Formaldehyde) | C | G | C | E | G | C | G | E | E | G | HYDROFLUOSILICIC ACID | E | C | E | E | X | E | G | E | E | X |
| FORMIC ACID | E | C | E | E | C | C | E | E | E | C | HYDROGEN CHLORIDE ANHYDROUS | E | C | E | E | X | X | X |  |  | X |
| FREON SO2 |  |  |  |  |  |  |  |  |  |  | HYDROGEN DIOXIDE (10\%) |  |  |  |  |  |  |  |  |  |  |
| FREON 113 | X | E | C | X | E | C | G |  |  | E | (Hydrogen peroxide) | G | F | C | G | F | G |  |  |  | F |
| FREON 12 | X | C | E | C | C | X | E | F | G | C | HYDROGEN GAS | E | E | E | E | E | C | G | E | E | E |
| FREON 22 | C | E | E | C | X | C | E | F | E | X | HYDROGEN PEROXIDE OVER 10\% | C | X | C | C | X | C | X | C | F | X |
| FUEL A (ASTM) | X | C | C | X | E | X |  |  |  | E | HYDROGEN PEROXIDE 10\% | G | F | C | G | F | G | X | E | E | F |
| FUEL B (ASTM) | X | X | X | X | C | X |  |  |  | C | HYDROGEN SULFIDE (WET) | E | E | G | E | x | X | X | E | E | X |
| FUEL OIL | X | C | C | X | E | X | X | E | E | E | HYDROXY BENZENE (Phenol) | C | X | C | C | X | C |  |  |  | X |
| FURAN (Furfuran) | X | X | X | X | X | X | X | E | E | X | HYDROXYISOBUTYRONIRILE |  |  |  |  |  |  |  |  |  |  |
| FURFURAL | C | X | C | C | X | X | X | E | E | X | (Acetone cyanohydrin) | E | G | F | E | C | C |  |  |  | C |
| FURFURAN (Furan) | X | X | X | X | X | X | X | E | E | X | HYDROXYTOLUENE (Benzyl alcohol) | C | C | C | C | X | X | X |  |  | X |
| FURFURYL ALCOHOL | C | X | X | C | X | X | X | E | E | X | HYVAR VXL |  |  |  |  |  |  |  |  |  |  |
| GALLIC ACID | C | C | C | C | C | E | G | E | E | C | IMINODI-2-PROPANOL |  |  |  |  |  |  |  |  |  |  |
| GALLOTANNIC ACID | G | E | E | E |  | E |  |  |  |  | (Diisopropanolamine) | E | G | F | E | , | G |  |  |  | G |
| GAS, COAL |  |  |  |  |  |  |  |  |  |  | IMINODIETHANOL (Diethanolamine) | C | G | F | G | C | C | X |  |  | C |
| GAS, HIGH OCTANE |  |  |  |  |  |  |  |  |  |  | IODINE | C | C | C | C | C | X | G | E | E | C |
| GASOLINE | C | X | C | X | E | C | X | E | E | E | IODINE PENTAFLUORIDE | X | X | X | X | X | X | X |  |  | X |

COMPOUND

## HALFAGOMTMA <br> Chemical Resistance Chart

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

COMPOUND

| Chemical or Material Conveyed | $\underset{\bar{ভ}}{\underline{ভ}}$ | 둗 | $\sum_{\boldsymbol{j}}$ | $\begin{array}{\|l\|l\|} \sum_{i}^{2} \\ \frac{1}{4} \end{array}$ | $\begin{array}{\|c} \mathbf{o} \\ \hline \mathbf{~} \\ \hline \end{array}$ | $\stackrel{\cong}{\mathbf{~}}$ |  | $\stackrel{\rightharpoonup}{\stackrel{\rightharpoonup}{x}}$ | \| | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ODDOFORM | X | X | X | E | E | X |  |  |  | E |
| ISO-BUTANAL (Isobutyraldehyde) |  | F |  | G | X | X | G | E | E | X |
| ISO-BUTYLAMINE | E | X | F | G | X | F |  |  |  | X |
| ISO-BUTYLBROMIDE | X | X | X | X | X | X |  |  |  | X |
| ISO-BUTYLCARBINOL (Isoamyl alcohol) | E | E | E | E | E | X |  |  |  | E |
| ISOCYANATES | G | X | F | G | C | F |  | E | E | C |
| ISOOCTANE | X | C | C | X | E | X | X | E | E | E |
| ISOPROPYL ACETATE | C | X | X | C | X | X | X | E | E | X |
| ISOPROPYL ALCOHOL | E | C | E | E | C | E | E | E | E | C |
| ISOPROPYL ETHER | X | X | C | X | G | X | X | E | E | G |
| JET FUELS | X | C | X | X | C | X | X | E | E | C |
| JP-4 OIL | X | X | X | X | E | X | X |  |  | E |
| KEROSENE | X | C | C | X | E | X | X | E | E | E |
| KETONES | G | C | C | E | C | C | E | E | E | C |
| LACQUER SOLVENTS | X | X | X | X | X | X |  | E | E | X |
| LACTIC ACID - COLD | E | C | E | C | C | E | G | G | G | C |
| LACTIC ACID - HOT | E | C | E | C | C | E | X | G | G | C |
| LARD | C | C | C | C | E | X | X | E | E | E |
| LAVENDER OIL | X | X | X | X | c | X | X |  |  | C |
| LEAD ACETATE | E | C | X | E | C | E | X | E | E | - |
| LEAD NITRATE | E | E | E | E | E | E | E |  |  | E |
| LEAD SULFATE | E | E | E | E | E | E |  | E | E | E |
| LIME | E | G | G | E | G | E |  | E | E | G |
| LIME BLEACH (Calcium hypochlorite) | E | C | E | E | C | C | E |  |  | C |
| LIME SULFUR | E | E | E | E | E | C | X | E | E | , |
| LIMONENE (Dipentene) | X | X | X | X | C | X |  |  |  | C |
| LINOLEIC ACID | X | C | X | X | C | x | X |  |  | C |
| LINSEED OIL | C | C | C | C | E | X | X | E | E | E |
| LIQUID PETROLEUM GAS (LPG) | X | G | C | X | E | X | X | E | E | E |
| LUBRICATING OIL | X | C | C | X | C | X | X | E | E | C |
| LYE SOLUTIONS (Caustic soda solution) | E | G | E | G | C | E | G |  |  | C |
| MEK | E | X | X | E | X | X | X | E | E | X |
| MAGNESIUM ACETATE | E | X | E | G | X | X | X |  |  | X |
| MAGNESIUM CHLORIDE | E | E | E | E | E | E | E | E | E | E |
| MAGNESIUM HYDRATE (Magnesium hydroxide) | E | C | E | E | C | C | G | E | E | c |
| MAGNESIUM HYDROXYDE | E | C | E | E | C | C | G | E | E | c |
| MAGNESIUM SULFATE | E | E | E | E | E | C | G | E | E | E |
| MALEIC ACID | X | X | X | C | X | X | X | E | E | X |
| MALEIC ANHYDRIDE | C | X | X | C | X | X | X |  |  | X |
| MALIC ACID | X | C | C | C | E | E | G | C | C | E |
| MANGANOUS SULFATE | G | E | E | E | E | G |  |  |  | E |
| MAPP |  |  |  |  |  |  |  |  |  |  |
| MERCURY | E | E | E | E | E | E | E | E | E | E |
| MERCURY VAPORS | E | G | E | E | E | G | E |  |  | E |
| MESITYL OXIDE | F | X | X | C | X | X | X |  |  | X |
| METHALLYL ALCOHOL | E | E | E | E | E | E |  |  |  | E |
| METHALLYL CHLORIDE | X | X | X |  |  | X |  |  |  |  |
| METHANE CARBOXYLIC ACID *see Acetic Acid |  |  |  |  |  |  |  |  |  |  |
| METHANOIC ACID (Formic acid) | E | E | E | E | G | C | E | E | E | G |
| METHANOL (Methyl alcohol) | C | E | E | E | C | E | E | E | E | C |
| METHANOL (Wood alchol) | C | E | E | E | C | E | E | E | E | - |
| METHOXY ETHANOL | E | E | E | E | C | E |  | E | E | C |

COMPOUND

| Chemical or Material Conveyed | $\stackrel{\underline{\bar{\omega}}}{ }$ | ๙ | $\underset{\mathcal{C}}{5}$ | $\begin{aligned} & \text { 릉 } \\ & \text { 문 } \end{aligned}$ | $\stackrel{\sim}{\otimes}$ | 뜰 | $\stackrel{\infty}{\infty}$ | $\stackrel{\text { 山 }}{\frac{1}{x}}$ |  | ¢ <br> ¢ <br> ¢ <br> 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| METHOXYETHOXY ETHANOL |  |  |  |  |  |  |  |  |  |  |
| METHOXYPROPENYL BENZENE |  |  |  |  |  |  |  |  |  |  |
| METHYL ACETATE | C | C | X | C | X | C | X |  |  | X |
| METHYL ACETOACETATE | C | X | X | C | X | X | X |  |  | X |
| METHYL ACETONE (Ethyl methyl ketone) | E | X | X | E | X | X | X | E | E | X |
| METHYL ACETYLENE PROPADIENE |  |  |  |  |  |  |  |  |  |  |
| METHYL ALLYL ALCOHOL |  |  |  |  |  |  |  |  |  |  |
| METHYL ALLYL CHLORIDE (Methylallyl chloride) | X | X | X |  |  | X |  |  |  |  |
| METHYL AMYL CARBINOL (s-Heptyl alcohol) | G | G | E | E | E | G |  |  |  | E |
| METHYL BENZENE (Toluene) | X | X | X | X | X | X | X | F | F | X |
| METHYL BROMIDE | C | X | X | X | C | X | X | F | F | C |
| METHYL BUTANE (iso-Pentane) | X | X | X | X | E | X |  |  |  | E |
| METHYL BUTYL ALCOHOL |  |  |  |  |  |  |  |  |  |  |
| METHYL BUTYL KETONE | E | X | X | E | X | X | X | E | E | X |
| METHYL CARBITOL <br> (Diethylene glycol monomethyl ether) |  | F |  | G | F |  |  |  |  | F |
| METHYL CELLOSOLVE | C | C | C | C | C | X | X | E | E | C |
| METHYL CHLORIDE | C | X | X | C | X | X | X | F | F | X |
| METHYL CYANIDE | E | E | G | E | C | G |  |  |  | C |
| METHYL ETHYL KETONE | E | X | X | E | X | X | X | E | E | X |
| METHYL HEXANOL | E | E | E | E | E | E |  |  |  | E |
| METHYL METHACRILATE | X | X | X | X | X | X | X | E | E | X |
| METHYL NORMAL AMYL KETONE |  | E | X | E | C | X |  |  |  | C |
| METHYL PROPYL ETHER | X | X | C | X | X | X |  |  |  | X |
| METHYL SALYCILATE | C | X | X | C | X | X |  | E | E | X |
| METHYL STYRENE ( p-Vinyltoluene) | X | X | X | X | X | X |  |  |  | $X$ |
| METHYL SULFIDE (Dimethyl sulfide) | F | X | X | X | X | X |  |  |  | X |
| METHYL TERTIARY METYL ETHER |  |  |  |  |  |  |  |  |  |  |
| METHYL 1-2, 4-PENTANEDIOL |  |  |  |  |  |  |  |  |  |  |
| METHYL-ISO-AMYL-KETONE | G |  | X |  |  | X |  |  |  |  |
| METHYL-L-PROPANOL |  |  |  |  |  |  |  |  |  |  |

METHY-L-PROPANOL
L-2-BUTANOL
METHYL-2-BUTANONE

| (Methyl isopropyl ketone) | C | X | X | C | X | X | X |  |  | X |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| ME |  |  |  |  |  |  |  |  |  |  | METHL-2-HEXANONE (Methyl isoamyl ketone) METHYL-2-PENTANOL (Methyl amyl alcohol) METHYL-2-PENTANONE (Methyl isobutyl ketone) METHYL-2-PROPEN-L-OL METHYL-3-PENTEN-1-ONE

METHYL-4-ISOPROPYL BENZENE (Cymene) METHYL AMYL ACETATE METHYL AMYL ALCOHOL METHYLCYCLOHEXANE METHYLENE BROMIDE METHYLENE CHLORIDE METHYLETHYL KETONE METHYL HEXYL KETONE METHYL ISOBUTYL CARBINOL
(Methyl amyl alcohol)

## Chemical Resistance Chart RaLFAGOMMA？

Key to General Chemical Resistance Chart［all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted］：
E－Excellent；G－Good；F－Fair；C－Conditional；I－Insufficient Data；X－Not Recommended；Blank－No Data

COMPOUND

| Chemical or Material Conveyed | $\cong$ | 뜬 | $\sum_{\mathcal{O}}$ | $\sum_{i}^{\sum_{\mathbf{~}}^{2}}$ | $\begin{array}{\|c} \mathbf{o} \\ \mathbf{o} \\ \hline \end{array}$ | $\stackrel{\sim}{z}$ | $$ | $\stackrel{山}{\stackrel{\rightharpoonup}{\boldsymbol{\lambda}}}$ |  | $\begin{aligned} & \mathbf{M} \\ & \underset{\mathbf{N}}{\mathbf{N}} \\ & \mathbf{O} \end{aligned}$ | Chemical or Material Conveyed | $\underline{\overline{\mathrm{O}}}$ | 뜬 | $\sum_{\mathcal{J}}$ | $\begin{aligned} & \sum_{i}^{2} \\ & \mathbf{W} \end{aligned}$ | $\underset{\sim}{\stackrel{\sim}{\mathbf{c}}}$ | $\stackrel{\boldsymbol{r}}{\mathbf{Z}}$ | $\begin{gathered} \boldsymbol{\sim} \\ \mathbf{~ 心} \\ \hline \end{gathered}$ | $\stackrel{\underset{\sim}{2}}{\stackrel{\rightharpoonup}{\boldsymbol{x}}}$ | 尘 | ¢ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| METHYLISOBUTYL KETONE | C | X | X | C | X | X | X | E | E | X | MINERAL OIL | C | C | C | X | E | X | X | E | E | E |
| METHYLISOPROPYL KETONE | C | X | X | C | X | X | X |  |  | X | MINERAL SPIRITS | X | C | G | X | C | X | X |  |  | C |
| METHYLLACTONITRILE （Acetone cyanohydrin） | E | G | F | E | X | F |  |  |  | $x$ | MOBILE HFA | X | C | X | X | E | X | X |  |  | E |
| M－ETHYLPHENOL |  |  |  |  |  |  |  |  |  |  | MONO－CHLOROACETIC ACID | G | C | G | G | X | C | X | E | E | X |
| METHYLPROPYL CARBINOL | E |  | E |  | E | E |  |  |  | E | MONOBUTYL ETHER | C | C | C | C | G | X | X |  |  | G |
| METHYLPROPYL KETONE | G | X | X | G | X | X |  | E | E | X | MONOCHLOROBENZENE | X | X | X | X | X | X | X | F | F | X |
| MIL－A－6091 | E | E | E | E | C | E |  |  |  | C | MONOCHLORODIFLUOROMETHANE |  |  |  |  |  |  |  |  |  |  |
| MIL－C－4339 | X | X | X | X | E | X |  |  |  | E | （Chlorodifluoromethane） | C | C | E | C | X | C | E | E | E | X |
| MIL－C－7024 | X | C | X | X | E | X |  |  |  | E | MONOETHANOL AMINE | C | G | C | C | G | C | G |  |  | G |
| MIL－E－9500 | E | E | E | E | E | E | E |  |  | E | MONOETHYL AMINE | C | C | F | E | C | C | F |  |  | C |
| MIL－F－16884 | X | C | C | X | E | X | X |  |  | E | MORPHOLINE | C | X | X | C | X | X |  |  |  | X |
| MIL－F－17111 | X | C | X | X | E | X | X |  |  | E | MOTOR OIL，40W | X | C | C | X | E | X |  |  |  | E |
| MIL－F－25558（RJ－1） | X | C | C | X | E | X | X |  |  | E | MTBE（Methyl tert－butyl ether） | G | X |  |  | X |  |  |  |  | X |
| MIL－G－10924 | X | C | C | X | E | X | X |  |  | E | MURIATIC ACID（Hydrogen chloride） | C | C | C | F | C | C | X |  |  | C |
| MIL－G－25013 | X | C | C | E | E | C | X |  |  | E | N－BUTANAL（Butyraldehyde） | C | X | X | C | X | X | X | E | E | $\chi$ |
| MIL－G－25537 | X | C | C | X | E | X | X |  |  | E | N－BUTYLAMINE | C | X | X | C | C | X | X |  |  | C |
| MIL－G－3545 | X | C | C | X | E | X |  |  |  | E | N－BUTYLBENZENE | X | X | X | X | X | X |  |  |  | X |
| MIL－G－5572 | X | X | X | X | E | X | X |  |  | E | N－BUTYLBROMIDE | X | X | X | X | X | X |  |  |  | X |
| MIL－G－7711 | X | X | X | X | E | X | X |  |  | E | N－BUTYLBUTYRATE | E | X | X | E | X | X | X |  |  | X |
| MIL－H－05606（HFA） | X | C | C | C | E | X |  |  |  | E | N－BUTYLCARBINOL（Pentyl alcohol） | E | E | E | E | E | E |  | E | E | E |
| MIL－H－13910 | G | E | G | E | E | E | E |  |  | E | N－NONYL ALCOHOL | E | E | E | E | E | E |  |  |  | E |
| MIL－H－19457 | E | X | X | C | X | X | X |  |  | X | N－OCTANE | X | G | X | X | C | X | X | E | E | C |
| MIL－H－22251 | E | C | C | E | C |  | G |  |  | C | N－SERV（75\％XYLENE） |  |  |  |  |  |  |  |  |  |  |
| MIL－H－27601 | X | C | C | X | G | X |  |  |  | G | NA－K |  |  |  |  |  |  |  |  |  |  |
| MIL－H－5606（J43） | X | C | C | C | E | X |  |  |  | E | NAPHTHA | X | X | C | X | C | X | X | E | ， | C |
| MIL－H－6083 | X | E | C | X | E | C | X |  |  | E | NAPHTHALENE | X | X | X | X | X | X | X | E | E | X |
| MIL－H－8446（MLO－8515） | X | E | C | X | G | X | X |  |  | G | NAPHTHENIC ACID | X | X | X | X | C | X | X |  |  |  |
| MIL－J－5161 | X | X | X | X | C | X | X |  |  | C | NATURAL GAS | X | E | X | x | E | C | F | E | E | － |
| MIL－J－5624（JP－3，JP－4，JP－5） | X | X | X | X | F | X | X |  |  | E | NEOHEXANE | X | G | X | X | E | X |  |  |  | E |
| MIL－L－15016 | X |  | C |  |  | X | X |  |  |  | NEON GAS | E | E | － | E | E | E | E |  |  | E |
| MIL－L－17331 | X |  | G |  |  | X | X |  |  |  | NEU－TRI | X |  | X |  | X | X |  |  |  | X |
| MIL－L－2104 | X | C | C | X | E | X |  |  |  | E | NICKEL ACETATE | E | G | X | E | C | E | X |  |  | C |
| MIL－L－21260 | X | C | C | X | E | X | X |  |  | E | NICKEL CHLORIDE | E | C | E | E | E | E | E | E | ， | E |
| MIL－L－23699 | X | C | C | X | C | X | X |  |  | C | NICKEL NITRATE | E | E | ， | E | E | E |  | E | ， | E |
| MIL－L－25681 | E | C | C | E | C | C | G |  |  | C | NICKEL SULFATE | E | E | E | E | E | C | G | E | E | E |
| MIL－L－3150 | X | C | C | X | E | X | X |  |  | E | NIETYLENE |  |  |  |  |  |  |  |  |  |  |
| MIL－L－4343 |  |  |  |  |  |  | X |  |  |  | NITRIC ACID，CONC（16N） | X | X | X | x | X | X |  |  |  | X |
| MIL－L－6082 |  |  |  |  |  |  | X |  |  |  | NITRIC ACID，RED FUMING | X | X | X | X | X | X | X | X | X | X |
| MIL－L－6085 | X | X | X | X | C | X | X |  |  | C | NITRIC ACID，10\％ | E | G | E | E | X | X | X | － | E | $\chi$ |
| MIL－L－7808 | X | X | X | X | G | X | X |  |  | G | NITRIC ACID，13N |  | X |  |  | X | X |  |  |  | X |
| MIL－L－7870 | X | C | X | X | E | X | X |  |  | E | NITRIC ACID， $13 \mathrm{~N}+5 \%$ |  | X |  |  | X | X |  |  |  | X |
| MIL－L－9000 | X | C | C | X | E | X | X |  |  | E | NITRIC ACID，20\％ | G | X | E | E | X | X | X | E | L | X |
| MIL－L－9236 | X | X | X | X | C | X | X |  |  | C | NITRIC ACID，30\％ | F | X | E | F | X | X | X | G | G | X |
| MIL－P－27402 | E | C | C | E | C |  | G |  |  | C | NITRIC ACID，30\％－70\％ | F | X | C | X | X | X | X | － | F | $\chi$ |
| MIL－R－25567（RP－1） |  |  |  |  |  |  |  |  |  |  | NITRILOTRIETHANOL（Triethanolamine） | E | C | C | E | F | C | G | E | E | F |
| MIL－R－25576（RP－1） | X |  | C |  |  | X |  |  |  |  | NITROBENZENE | F | X | X | C | X | X | X | E | E | $x$ |
| MIL－S－3136 TYPE 1 FUEL | X | C | C | X | E | X | X |  |  | E | NITROETHANE | G | C | G | C | X | G | G |  |  | $\chi$ |
| MIL－S－3136 TYPE 2 FUEL | X | X | X | X | C | X | X |  |  | C | NITROGEN | E | E | E | E | E | E | E | E | E | L |
| MIL－S－3136 TYPE 3 FUEL | X | X | X | X | G | X | X |  |  | G | NITROMETHANE | G | C | C | C | X | G | C |  |  | X |
| MIL－S－3136 TYPE 4 OIL，LOWSWELL | X | X | C | X | E | X | X |  |  | E | NITROUS OXIDE GAS |  | G |  | E | E |  |  |  |  | E |
| MIL－S－3136 TYPE 5 OLL，MEDSWELL | X | G | G | X | E | X | X |  |  | E | NONANOIC ACID | E |  | X |  | E | X |  | E | E | E |
| MIL－S－3136 TYPE 6 OIL，HI SWELL | X | X | C | X | E | X | X |  |  | E | NONANOL（Nonyl alcohol） | E | E | E | E | E | E |  |  |  | E |
| MIL－S－81087 | E | E | E | E | E | E | E |  |  | E | NUTO H |  |  |  |  |  |  |  |  |  |  |

COMPOUND

## \&ALEAGONMTA <br> Chemical Resistance Chart

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

COMPOUND

| Chemical or Material Conveyed | $\stackrel{\Phi}{\bar{\top}}$ | 뜰 | $\underset{~ N ~}{\sim}$ | 를 |  | 뜰 | $\stackrel{\propto}{\infty}$ | $\frac{\underline{a}}{\frac{1}{x}}$ | $\sum_{\text {롤 }}^{\substack{3}}$ | ¢ <br> N <br> N <br> 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NYVAC LIGHT |  |  |  |  |  |  |  |  |  |  |
| OCTANOIC ACID (n-Caprylic acid) | F |  | G |  | F | F |  |  |  | F |
| OCTANOL (Octyl alcohol) | C | C | C | C | C | C | E |  |  | C |
| OCTYL ACETATE | E | C | E | G | C | C | X | E | E | C |
| OCTYL ALCOHOL | C | C | C | C | C | C | E |  |  | C |
| OCTYL ALDEHYDE | F |  | X |  | X | X |  | E | E | X |
| OCTYL AMINE | E | G | F | G | F | F |  |  |  | F |
| OCTYL CARBINOL | E | E | E | E | E | E |  |  |  | E |
| OCTYLENE GLYCOL | E | E | E | E | E | E |  |  |  | E |
| OIL-PETROLEUM |  |  |  |  |  |  | X | G | G |  |
| OLEIC ACID | X | F | C | X | G | X | X | E | E | G |
| OLEUM (Fuming sulfuric acid) | X | X | X | X | X | X | X | X | X | X |
| OLIVE OIL | C | G | C | G | E | X | X |  |  | E |
| ORTHO-DICHLOROBENZENE | X | X | X | X | X | X | X |  |  | X |
| ORTHO-DICHLOROBENZOL (0-Dichlorobenzene) | X | X | X | X | X | X | X |  |  | X |
| ORTHOXYLENE | X | X | X | X | X | X | X |  |  | X |
| OXALIC ACID | E | G | E | E | G | C | G | E | E | G |
| OXYDIETHANOL |  |  |  |  |  |  |  |  |  |  |
| OZONE | G | F | G | E | X | X | X | E | E | X |
| P-CYMENE | X | X | X | X | X | X |  |  |  | X |
| PAINT THINNER | X | X | X | X | X | X | X |  |  | X |
| PALMITIC ACID | C | G | C | C | E | C | G | E | E | E |
| PAPERMAKERS ALUM |  |  |  |  |  |  |  |  |  |  |
| PARA-DICHLOROBENZENE | X | X | X | X | X | X | X |  |  | X |
| PARAFFIN WAX | X | G | E | X | E | X |  |  |  | E |
| PARALDEHYDE | E | G | X | E | C | F |  |  |  | C |
| PARAXYLENE (p-Dimethylbenzene) | X | X | X | X | X | X |  |  |  | X |
| PCB |  |  |  |  |  |  |  |  |  |  |
| PELARGONIC ALCOHOL (Nonyl alcohol) | E | E | E | E | E | E |  | E | E | E |
| PENTACHLOROETHANE | X | X | X |  | X | X |  |  |  | X |
| PENTADIONE |  |  |  |  |  |  |  |  |  |  |
| PENTAMETHYLENE (Cyclopentane) | X | C | X | X | G | X |  |  |  | G |
| PENTANE | X | E | C | X | E | X | X | E | E | E |
| PENTANOL (Pentyl alcohol) | E |  | E |  |  | E |  | E | E |  |
| PENTANONE | G | X | X | G | X | X |  |  |  | X |
| PENTASOL (Pentachlorophenol) | E | G | E | G | C | X | G | E | E | C |
| PENTYL ACETATE (Amyl acetate) | X | X | X | C | X | C | X | E | E | X |
| PENTYL ALCOHOL (n-Amyl alcohol) | C | C | E | E | C | C | G | E | E | C |
| PENTYL BROMIDE (Amyl bromide) | X | X | X | C | X | X |  |  |  | X |
| PENTYL CHLORIDE (Amyl chloride) | X | X | X | X | X | X | X | E | E | X |
| PENTYL ETHER (Amyl ether) | X | X | F | X | C | X |  |  |  | C |
| PENTYLAMINE (Amylamine) | G | F | F | X | F | F |  |  |  | F |
| PERCHLORIC ACID | C | E | C | G | X | C | X | E | E | X |
| PERCHLOROETHYLENE <br> (Tetrachloroethylene) | X | X | X | X | F | X | X | E | E | F |
| PERCHLOROMETHANE (Carbon tetrachloride) | X | X | X | X | X | X |  |  |  | X |
| PETROLEUM CRUDE | X | G | E | X | G | X | X | E | E | G |
| PETROLEUM ETHER | X | X | C | X | E | X | X |  |  | E |
| PETROLEUM OILS | X | G | G | X | X | X | X | E | E | X |
| PHENBO |  |  |  |  |  |  |  |  |  |  |
| PHENOL | C | X | C | X | X | C | X | E | E | X |
| PHENOLSULFONIC ACID | G | C | C | E | C | C | X |  |  | C |

COMPOUND

| Chemical or Material Conveyed | $\stackrel{\cong}{\bar{\sigma}}$ | 品 | $\sum_{\substack{2}}$ |  | $\frac{\stackrel{\circ}{9}}{2}$ | 뜰 | $\frac{\underset{\infty}{\infty}}{\stackrel{\infty}{n}}$ | $\frac{山}{\underline{a}}$ | $\sum_{i}^{\text {롤 }}$ | $\frac{\square}{4}$ <br> N <br> O <br> 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PHENYLAMINE (Aniline) | E | X | C | C | X | X |  | E | E | X |
| PHENYLBROMIDE (Bromobenzene) | X |  | X |  |  | X |  |  |  |  |
| PHENYLBUTANE |  |  |  |  |  |  |  |  |  |  |
| PHENYLCHLORIDE (Chlorobenzene) | X | X | X | X | X | X |  | E | E | X |
| PHENYLETHYLENE (Styrene) | X | X | X | X | X | X | X |  |  | X |
| PHENYLMETHANE (Toluene) | X | X | X | X | X | X |  | E | E | X |
| PHENYLMETHANOL (Benzyl alcohol) | E | C | C | C | X | X |  |  |  | X |
| PHENYLMETHYL ACETATE (Acetic acid) |  |  |  |  |  |  |  |  |  |  |
| PHOSPHATE ESTERS | E | X | X | E | X | X | X |  |  | X |
| PHOSPHORIC ACID 10\% | E | E | E | E | E | E | E | E | E | E |
| PHOSFORIC ACID 10\% - 85\% | E | G | E | E | G | G | G | E | E | G |
| PHOSPHORUS TRICHLORIDE | E | X | X | E | X | X | X | E | E | X |
| PICRIC ACID, H20 SOLUTION | G | E | E | E | E | C | G |  |  | E |
| PINE OIL | X | X | X | X | E | X | X | E | E | E |
| PINENE | X | C | X | X | C | X | X |  |  | C |
| POLY CHLORINATED BIPHENOL |  |  |  |  |  |  |  |  |  |  |
| POLYETHYLENE GLYCOL E-400 | E | G | E | E | C | E |  |  |  | C |
| POLYOL ESTER |  | X |  | X | G |  |  |  |  | G |
| POLYPROPYLENE GLYCOL | E | E | E |  | E | E |  | E | E | E |
| POTASSIUM ACETATE | E | E | E | E | C | E | X |  |  | C |
| POTASSIUM BISULFATE | E | E | E | E | E | E | G |  |  | E |
| POTASSIUM BISULFITE | E | E | E | E | E | E | G |  |  | E |
| POTASSIUM CARBONATE | E | E | E | E | E | E | E | E | E | E |
| POTASSIUM CHLORIDE | E | E | G | E | E | E | E | E | E | E |
| POTASSIUM CHROMATE | E | E | F | E | G | G | G |  |  | G |
| POTASSIUM CYANIDE | E | E | E | E | E | E | E | E | E | E |
| POTASSIUM DICHROMATE | E | E | G | E | E | C | G | E | E | E |
| POTASSIUM HYDRATE <br> (Potassium hydroxide) | E |  | E |  |  | C | G | E | E |  |
| POTASSIUM HYDROXYDE | E | G | E | E | G | C | G | E | E | G |
| POTASSIUM NITRATE | E | E | E | E | E | E | E | E | E | E |
| POTASSIUM PERMANGANATE, 5\% | E | E | G | E | F | E | G | E | E | F |
| POTASSIUM SILICATE | E | E | E | E | E | E | E |  |  | E |
| POTASSIUM SULFATE | E | E | E | E | E | C | G | E | E | E |
| POTASSIUM SULFIDE | E | E | E | E | C | G | G |  |  | C |
| POTASSIUM SULFITE | E | E | C | E | E | C | G | E | E | E |
| PRESTONE ANTIFREEZE | E | E | E | E | E | E | E |  |  | E |
| PRODUCER GAS | X | G | C | X | E | X | X |  |  | E |
| PROPANE | X | E | C | X | E | X | X | E | E | E |
| PROPANEDIOL | E | G | E | E | E | E | E | E | E | E |
| PROPANETRIOL | E | E | E | E | E | E | E | E | E | E |
| PROPANOL | E | E | E | E | E | E | E | E | E | E |
| PROPANOLAMINE |  |  |  |  |  |  |  |  |  |  |
| PROPANONE | E | X | C | E | X | C | G | E | E | X |
| PROPENOL | E |  | E |  |  | E |  |  |  |  |
| PROPANEDIAMINE | E |  | F |  | G | G |  |  |  | G |
| PROPENE NITRILE | X | X |  |  | X | G |  | E | E | X |
| PROPENYL ALCOHOL (Allyl Alcohol) | E | E | E | E | E | E |  | E | E | E |
| PROPENYL ANISOLE | X |  | X |  | X | X |  | E | E | X |
| PROPIONIC ACID | E | C | G | E | C | E | X |  |  | C |
| PROPIONITRILE | E | C |  | C | E | E |  |  |  | E |
| PROPYL ACETATE | C | X | X | C | X | X | X | E | E | X |
| PROPYL ALCOHOL | E | E | E | E | E | E | E | E | E | E |
| PROPYL ALDEHYDE | G | X | X | G | X | F |  |  |  | X |

## Chemical Resistance Chart RALFAGOxMTa

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]:
E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

COMPOUND

| Chemical or Material Conveyed | $\underset{\bar{ভ}}{ }$ | ¢ | $\underset{\mathcal{N}}{\mathbf{N}}$ | $\sum_{i}$ | $\begin{array}{\|c\|c\|} \mathbf{c} \\ \mathbf{y} \\ \hline \end{array}$ | $\stackrel{\cong}{\mathbf{~}}$ | $\left\lvert\, \begin{gathered} \boldsymbol{\sim} \\ \mathbf{~} \\ \hline \end{gathered}\right.$ | $\begin{aligned} & \underset{2}{\underset{\lambda}{2}} \\ & \hline \end{aligned}$ | $\sum_{i=1}^{\omega}$ | $\left\lvert\, \begin{gathered} \mathbb{S} \\ \underset{\substack{6}}{*} \end{gathered}\right.$ | Chemical or Material Conveyed | $\underline{\bar{ভ}}$ | ¢ | $\underset{\sim}{\sim}$ | $\sum_{0}$ | $\stackrel{\text { м }}{\stackrel{(1)}{2}}$ | $\underset{\sim}{\mathbf{c}}$ |  | $\frac{\underset{2}{2}}{\stackrel{\rightharpoonup}{x}}$ | $\sum_{\substack{\text { un }}}^{\sum_{\overline{3}}^{3}}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PROPYL BENZENE | X | X | X |  |  | X |  |  |  |  | SODIUM SULFITE | E | E | E | E | E | G | G | E | E | E |
| PROPYL CHLORIDE | F | F | X | F | X | X |  |  |  | X | SODIUM THIOSULFATE | E | E | E | E | C | G |  | E | E | C |
| PROPYL ETHER |  |  |  |  |  |  |  |  |  |  | SOYBEAN OIL | G | E | G | C | E | X | X |  |  | E |
| PROPYL NITRATE | C | X | X | C | X | X | X |  |  | X | STANNIC CHLORIDE | E | G | E | E | E | E | E | E | E | E |
| PROPYLENE | X | X | X | X | X | X | X |  |  | X | STANNIC SULFIDE | E | E | E | E | E | E |  |  |  | E |
| PROPYLENE DIAMINE | E |  | F |  | G | G |  |  |  | G | STANNOUS CHLORIDE | E | E | E | G | E | E | E | E | E | E |
| PROPYLENE GLYCOL | E | E | E | E | E | E | E | E | E | E | STANNOUS SULFIDE | E | E | E | E | E | E |  |  |  | E |
| PYDRAUL, 'E' SERIES | C | X | X | C | X | X | X |  |  | X | STEAM, BELOW 350 DEG F | G | X | C | E | X | C | X | X | X | X |
| PYDRAULIC 'C' | X | X | X | X | X | X | X |  |  | X | STEARIC ACID | C | G | G | G | G | C | G | E | E | G |
| QUINTOLUBRIC 822 SERIES |  |  |  |  |  |  |  |  |  |  | STODDARD SOLVENT | X | G | X | X | E | X | X | E | E | E |
| RED OIL | X | F | C | F | E | X | X | E | E | E | STYRENE | X | X | X | X | X | X | X | F | F | X |
| REFRIGERANT 11 (Freon 11) | X |  | E |  |  | X | X | E | E |  | SULFAMIC ACID | E | G | E | E | C | G |  |  |  | C |
| REFRIGERANT 12 (Freon 12) | X |  | E |  |  | X | E | E | E |  | SULFUR | E | E | E | E | X | X | x | E | E | X |
| REFRIGERANT 22 (Freon 22) | $\chi$ |  | E |  |  | C | E | E | E |  | SULFUR CHLORIDE | X | E |  | E | C | X | X |  |  | C |
| RESORCINOL | E | A | G | G | C | E | G |  |  | C | SULFUR DIOXIDE | C | C | C | E | X | C | G |  | G | X |
| SAE NO. 10 OIL | X | C | X | X | E | X | X |  |  | E | SULFUR TRIOXIDE, DRY | G | X | X | E | X | C | X | X | X | X |
| SAL AMMONIAC | E | E | E | E | E | E | E | E | E | E | SULFURIC ACID $60 \%$ ( $200^{\circ} \mathrm{F}$ ) | E | X | G | E | G | X | X | X | X | G |
| SEA WATER | E | E | E | E | E | E | E | E | E | E | SULFURIC ACID, CONC. | X | X | X | X | X | X | X | F | F | X |
| SEWAGE | G | C | E | G | E | G | G | E | E | E | SULFURIC ACID, FUMING | X | X | X | X | X | X | X | X | X | X |
| SILICATE ESTERS | X | E | G | X | G | X | C |  |  | G | SULFURIC ACID, 25\% | G | C | E | E | C | E | F | E | E | C |
| SILICATE OF SODA (Sodium silicate) | E | E | E | E | E | E | E |  |  | E | SULFURIC ACID, 25\%-50\% | G | X | G | E | C | G | F | E | E | C |
| SILICONE GREASE | E | E | E | E | E | E | E | E | E | E | SULFURIC ACID, 50\%-96\% | C | X | C | X | X | C | X | G | G | X |
| SILICONE OIL | E | E | E | E | E | E | E | E | E | E | SULFUROUS ACID, 10\% | E | C | E | E | E | G | G | E | E | E |
| SILVER NITRATE | E | E | E | E | C | E | G | E | E | C | SULFUROUS ACID, 10\%-75\% | E | C | E | E | F | G | G | E | E | F |
| SKYDROL 500 TYPE 2 | G | X | X | E | X | X | X |  |  | X | SUTAN |  |  |  |  |  |  |  |  |  |  |
| SKYDROL 500B | G | X | X | E | X | X | X |  |  | X | T-BUTYL AMINE | C | X | X | C | C | X |  |  |  | C |
| SKYDROL 500C | G | X | X | E | X | X | X |  |  | X | TALL OIL | X | C | F | X | E | X | X |  |  | E |
| SKYDROL 7000 TYPE 2 | E | X | X | E | X | E | X |  |  | X | TALLOW | X | G | F | E | E | X | X | E | E | E |
| SOAP SOLUTIONS | E | G | E | E | E | F | X | E | E | E | TANNIC ACID | E | E | E | E | E | E | G | E | E | E |
| SODA ASH | E | E | E | E | E | E | X | E | E | E | TAR | X | X |  | X | X | X | X | X | F | X |
| SODA LIME | E | G | G | E | G | E |  |  |  | G | TAR BITUMINOUS | X | C | X | X | G | X | X |  |  | G |
| SODA NITER | E | G | E | E | E | G | G | E | E | E | TARTARIC ACID | G | E | E | G | E | E | G | E | E | E |
| SODIUM ACETATE | F | C | G | E | G | F | X | E | E | G | TELLONE 2 |  |  |  |  |  | C |  |  |  |  |
| SODIUM ALUMINATE | E | E | E | E | E | E | G |  |  | E | TERTIARY BUTYL ALCOHOL | C | C | C | C | C | C | G |  |  | C |
| SODIUM BICARBONATE | E | E | E | E | E | E | E | E | E | E | TERPINEOL | C |  | X |  |  | X | X |  |  |  |
| SODIUM BISULFATE | E | E | E | E | E | E | G | E | E | E | TERTIARY BUTYL AMINE | C | X | $x$ | C | C | X |  |  |  | C |
| SODIUM BISULFITE | E | E | E | E | E | E | G | E | E | E | TERTIARY BUTYL MERCAPTAN | X | X | X | X | X | X | X |  |  | X |
| SODIUM BORATE | E | E | E | E | E | E | E | E | E | E | TEST ENTRY |  |  |  |  |  |  |  |  |  |  |
| SODIUM CARBONATE | E | E | E | E | E | E | E | E | E | E | TEST ENTRY 1 |  |  |  |  |  |  |  |  |  |  |
| SODIUM CHLORIDE | E | E | E | E | E | E | E | E | E | E | TETRACHLOROBENZENE | X | X | X | X | X | X |  |  |  | X |
| SODIUM CYANIDE | E | E | E | E | E | E | E | E | E | E | TETRACHLOROETHANE | X | x | - | X | X | X | X | F | F | X |
| SODIUM DICHROMATE | E | F | G | E | E | X | G |  |  | E | TETRACHLOROETHYLENE | X | $x$ | X | X | C | X | X | F | F | C |
| SODIUM HYDRATE (Sodium hydroxide) | E | G | C | E | X | E | G | E | E | X | TETRACHLOROMETHANE | X | - | X | X | X | X |  | E | E | X |
| SODIUM HYDROCHLORITE | G | F | E | G | F | F | G |  |  | F | TETRACHLORONAPHTHALENE | X | X | X | X | X | X |  | E | E | X |
| SODIUM HYDROXIDE (Caustic soda) | E | G | C | E | X | E | G | E | E | X | TETRAETHYLENE GLYCOL | E | E | E | E | E | E |  |  |  | E |
| SODIUM HYPOCHLORITE | C | C | G | E | C | X | F | E | E | C | TETRAETHYLORTHOSILICATE | E | E |  | E | E | X |  |  |  | E |
| SODIUM METAPHOSPHATE | G | E | C | E | E | E | E | E | E | E | TETRAHYDROFURAN (THF) | C | X | X | X | X | X | X |  |  | X |
| SODIUM NITRATE | E | G | E | E | C | G | G | E | E | C | TIN CHLORIDE | E | C | C | E | E | E |  | E | E | E |
| SODIUM PERBORATE | E | G | E | E | C | G | G |  |  | C | TITANIUM TETRACHLORIDE | X | - | X | X | C | X | X |  |  | C |
| SODIUM PEROXIDE | E | G | G | E | C | C | G | E | E | C | TOLUENE | X | X | X | X | X | X | X | E | E | X |
| SODIUM PHOSPHATE | E | G | E | E | E | E | E | E | E | E | TOLUIDINE | X | X | X | X | C | X |  | E |  | C |
| SODIUM SILICATE | E | E | E | E | E | E | E | E | E | E | TOLUOL (Toluene) | X | X | X | X | X | X | X | E | E | X |
| SODIUM SULFATE | E | E | E | E | E | C | G | E | E | E | TRANSFORMER OIL | X | C | C | X | C | X | X | E | E | C |
| SODIUM SULFIDE | E | E | E | E | E | G | G | E | E | E | TRANSMISSION 'A' OIL | X | C | C | X | E | X |  |  |  | E |

COMPOUND

## ⒶLEAGONTMA <br> Chemical Resistance Chart

Key to General Chemical Resistance Chart [all data based on $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data

COMPOUND

| Chemical or Material Conveyed | $\underset{\overline{\mathrm{C}}}{\underline{\square}}$ | ¢ | $\sum_{\mathcal{N}}$ | $\sum_{0}^{\Sigma}$ | $\stackrel{\text { м }}{\mathbf{0}}$ | $\underset{\mathbf{\Sigma}}{\boldsymbol{\sim}}$ | $\begin{gathered} \text { 品 } \\ \hline \end{gathered}$ | $\begin{aligned} & \dot{2} \\ & \stackrel{\rightharpoonup}{\boldsymbol{x}} \end{aligned}$ | $\sum^{\text {2 }}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRI(2-HYDROXYETHYL) AMINE (Triethanolamine) | E | C | C | E | G | C |  |  |  | G |
| TRIBUTYL PHOSPHATE | G |  | X | G | F | C | X |  |  | F |
| TRIBUTYLAMINE | E |  | F |  | G | G |  |  |  | G |
| TRICHLOROACETIC ACID | C | C | X | C | C | C | X |  |  | C |
| TRICHLOROBENZENE | X | X | X | X | C | X | X | F | F | C |
| TRICHLOROETHANE | X | X | X | X | X | X | X |  |  | X |
| TRICHLOROETHYLENE | X | X | X | X | X | X | X | F | F | X |
| TRICHLOROMETHANE | X | X | X | X | X | X | X | F | F | X |
| TRICHLOROTOLUENE (Benzotrichloride) |  | X | X | E | X | X |  |  |  | X |
| TRICRESYL PHOSPHATE | E | X | X | E | X | X | X |  |  | X |
| TRIETHANOLAMINE | E | C | C | E | C | X | G | E | E | 0 |
| TRIETHYLAMINE | G | G | E | E | E | G | X |  |  | E |
| TRIETHYLENE GLYCOL | E | - | E | E | C | E |  | E | E |  |
| TRIHYDROXYBENZOIC ACID | - | C | G | - | C | E |  |  |  | C |
| TRIMETHYL PENTANE (MIXED) | X | G | C | X | E | X | X |  |  | F |
| TRIMETHYL PENTENE |  |  |  |  |  |  |  |  |  |  |
| TRIMETHYLAMINE | E | E | E | C | C | E |  |  |  | C |
| TRISODIUM PHOSPHATE | E | E | E | E | E | E | E | E | E | - |
| TRITOYL PHOSPHATE | E | C | C | E | X | X | X |  |  | X |
| TUNG OIL | C | C | C | X | E | X | X | E | E | , |
| TUNG OIL (CHINA OIL) | C | C | C | X | E | X | X | E | E | E |
| TURPENTINE | X | X | X | X | E | X | X | E | E | E |
| UNSYMETRICAL DIMETHYL HYDRAZINE (UDMH) | E | C | E | E | C | E | X |  |  | C |
| UNDECYL ALCOHOL | E | E | E | E | E | E |  |  |  | E |
| UREA (Carbammide) | E | G | E | E | G | E |  | E | E | G |
| URETHANE FORMULATIONS |  |  |  |  |  |  |  |  |  |  |
| URIC ACID | E | E | E | E | C | E |  |  |  | C |
| VARNISH | X | X | X | X | G | X | X | E | E | , |
| VEGETABLE OILS | C | C | G | F | E | X | X | E | E | , |
| VERSILUBE F44 | E | E | E | E | E | E | E |  |  | E |
| VERSILUBE F55 | E | E | E | X | E | E | E |  |  | E |
| VINEGAR (Acetic acid) | E | G | E | E | G | G | a | E | E | O |
| VINEGAR ACID (Vinegar) | E |  | E |  |  | G |  | E | E |  |
| VINYL ACETATE | , | C | F | G | C | X | X | E | E | C |
| VINYL BENZENE | X | X | X | X | C | X | X | F | F | - |
| VINYL CHLORIDE | x | X | X | C | X | X |  | E | E | X |
| VINYL CYANIDE | X | X | G | X | X | G | F | E | E | X |
| VINYL ETHER (Divinyl ether) | X |  | G |  | G | X |  |  |  | G |
| VINYL STYRENE |  |  |  |  |  |  |  |  |  |  |
| VINYL TOLUENE | X | X | X | X | X | X |  |  |  | X |
| VINYL TRICHLORIDE (Trichloroethane) | X | X | X | X | X | X |  |  |  | X |
| VITAL, 4300,5310 |  |  |  |  |  |  |  |  |  |  |
| VM \& NAPHTHA | X | F | X | X | G | X | X |  |  | G |
| WATER | E | G | E | E | E | E | C | E | E | E |
| WATER, BOILING | E | G | E | E | G | E |  |  |  | G |
| WATER, SODA |  |  |  |  |  |  |  | E | E |  |
| WEMCO C | X | C | X | X | E | X | X |  |  | E |
| WHISKEY | E | E | E | E | E | E | E | - | E | E |
| WHITE OIL | X | G | C | X | E | X | X | E | E | E |
| WHITE PINE OIL | X | X | X | X | C | X | X |  |  | c |
| WINES | E | E | E | E | E | E | E | E | E | E |
| WOOD ALCOHOL (Methanol) | C | E | E | E | C | E | E | E | E | C |

COMPOUND

| Chemical or Material Conveyed | $\underline{\bar{ভ}}$ | ¢ | $\sum_{\substack{2}}$ |  |  | $\stackrel{\sim}{2}$ | $\stackrel{\text { ๙ }}{\boldsymbol{\omega}}$ | $\stackrel{\rightharpoonup}{\stackrel{\rightharpoonup}{x}}$ | $\sum^{\text {를 }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WOOD OIL | C | C | C | X | E | X | X | E | E | E |
| XENON | E | E | E | E | E | E | E |  |  | E |
| XYLENE, XYLON | X | X | X | X | X | X | X | F | F | X |
| XYLIDINE | G | X | X | G | C | X | X |  |  | C |
| ZEOLITES | E | E | E | E | E | E | E |  |  | E |
| ZINC ACETATE | E | C |  | E | - | E | X |  |  | G |
| ZINC CARBONATE | E | E | E | E | E | E |  |  |  | E |
| ZINC CHLORIDE | E | E | E | E | - | E | E | E | E | E |
| ZINC CHROMATE | E | E | G | E | C | E |  |  |  | C |
| ZINC SULFATE | E | E | E | E | E | E | G | E | E | E |
| O-AMINOTOLUENE (0-Methylaniline) | C | X | X | C | X | X |  |  |  | X |
| 1 UNDECANOL | E | E | E | E | E | E | E | E | G | E |
| 1-AMINO-2-PROPANOL (Isopropanolamine) | E | E | F | E | c | G |  |  |  | C |
| 1-AMINOBUTANE (Butylamine) | C | X | X | C | C | X | X |  |  | C |
| 1-AMINOPENTANE (Amylamine) | G | C | F | X | F | F |  |  |  | F |
| 1-BROMO-2-METHYL PROPANE (Isobutyl bromide) | X | X | X | x | X | X |  |  |  | X |
| 1-BROMO-3-METHYL BUTANE (Isoamyl bromide) | X | X | x | X | X | X |  |  |  | x |
| 1-BROMOBUTANE (n-Butyl bromide) | X | X | X | X | X | X |  |  |  | X |
| 1-CHLORO-2-METHYL PROPANE (Isobutyl chloride) | X | X | X | X | X | X |  |  |  | X |
| 1-CHLORO-3-METHYL BUTANE (Isoamyl chloride) | X | X | X | X | X | X |  |  |  | X |
| 1-DECANOL | X | X | C | X | E | X |  | E | E | E |
| 1-HENDECANOL (Undecanol) | E | E | E | E | E | x |  |  |  | E |
| 1,4-DIOXANE | C | X | X | C | X | X |  | E |  | X |
| 2(2AMINOETHYLAMINO) ETHANOL (N-(Aminoethyl)ethanolamine) | E |  | G |  |  | G |  |  |  |  |
| $\begin{aligned} & \text { 2(2ETHOXYETHOXY) ETHANOL } \\ & \text { (Carbitol) } \end{aligned}$ | C | C | C | C | C | C | G |  |  | C |
| 2(2ETHOXYETHOXY) ETHYL ACETATE <br> (Carbitol acetate) | G | X | G | X | X | X | X |  |  | X |
| 2-AMINOETHANOL (Ethanolamine) | C | C | C | E | C | C | F |  |  | C |
| 2-CHLORO-1-HYDROXY-BENZENE (0-Chlorphenol) | X | X | X | X | X | X |  |  |  | X |
| 2-CHLOROPHENOL | X | X | $\chi$ | $\chi$ | X | $\chi$ | X |  |  | X |
| 2-CHLOROPROPANE | X | X | X | X | X | X | X |  |  | X |
| 2-ETHOXYETHANOL | C | X | X | C | C | X | X | E | E | C |
| 2-ETHOXYETHYL ACETATE | C | X | X | G | X | C |  | E | E | X |
| 2-ETHYL(BUTYRALDEHYDE) | G |  | X |  | X | X |  |  |  | X |
| 2-ETHYL-1-HEXANOL | C | C | C | - | C | G | G | E | E | C |
| 2-ETHYLHEXANOIC ACID <br> (Ethylhexoic acid) | F |  | G |  | F | F |  |  |  | F |
| 2-ETHYLHEXYL ACETATE | E |  | G |  | X | X |  | C | C | X |
| 2-OCTANONE (Methyl hexyl ketone) | G | C |  | G | $x$ | X |  |  |  | X |
| 2,4-DI-SEC--PENTYLPHENOL |  |  |  |  |  |  |  |  |  |  |
| 3-BROMOPROPENE (Allyl bromide) | X | X | X | X | X | X |  |  |  | X |
| 3-CHLORO-2-METHYL PROPANE |  |  |  |  |  |  |  |  |  |  |
| 3-CHLOROPROPENE | C | X | X | X | C | X | E | E | G | C |
| 3-COAL OIL | X | G | F | X | E | X |  |  |  | E |
| 4-HYDROXY-4-METHYL-2-PENTANONE (Diacetone alcohol) | E | F | C | E | X | X | X | E | E | x |

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[^1]:    * Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.

[^2]:    * Working Pressure and vacuum ratings are based at ambient temperature of $68^{\circ} \mathrm{F}\left(20^{\circ} \mathrm{C}\right)$.

[^3]:    $\star$
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