

## RECOMMENDED USE DEFINITIONS

### IMMERSION SERVICE (Most Severe) - IS

Suitable for continuous contact with chemical exposure up to specified temperature.

### CARGO IMMERSION - CI

Suitable for continuous contact with chemical exposure up to specified temperature. Coating will show no effect except slight softening or color change after 2 months or less continuous immersion (may also be used in transport and hauling situations).

### SECONDARY CONTAINMENT - SC

Suitable for continuous contact with chemical for up to 72 hours. EPA regulations require removal within 48 hours or in a timely manner as possible. Softening or discoloration may occur during the exposure.

### FREQUENT CONTACT - FC

Suitable for frequent splash or up to 72 hours exposure to concentrated vapors. The coating will show no effects except slight softening or color change after eight hours continuous immersion in the liquid chemical or 72 hours exposure to the vapor.

### OCCASIONAL CONTACT (Least Severe) - OC

Suitable for occasional splash and spillage or occasional exposure to concentrated vapors. The coating shows no effects, except slight softening or color changes, following short exposure to splash or spillage which evaporates, is hosed off, or dried overnight or, 24 hours exposure to vapor.

### NOT TESTED - NT

### NOT RECOMMENDED - NR

### PLEASE CALL - PC

Chemical resistance information herein is provided for the purpose of establishing a general profile of the coating. Test performance results were obtained in a controlled environment and the Tnemec Company makes no claim that these tests, or any other tests, accurately represent all environments. Application, environmental and design factors, chemical temperatures, and chemical mixtures can significantly impact coating performance, so due care should be exercised in the selection and use of the coating. Contact your Tnemec representative to review full project details before coating is selected.

## ELASTO-SHIELD® | SERIES 264

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
1, 1, 1-Trichloroethane (Trichloroethane)	NR	NR	NR	NR	NR
Acetic Acid, Glacial	100°F (38°C)	100°F (38°C)			
Acetic Anhydride	100°F (38°C)	100°F (38°C)			
Acetone	NR	NR	NR	NR	NR
Activated Carbon	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Aluminum Chloride	NR	NR	NR	NR	NR
Aluminum Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Aluminum Sulfate (Alum)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Ammonium Nitrite	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Ammonium Perchlorate (Dry)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Phosphate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Ammonium Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Amyl Acetate	NR	NR	NR	NR	NR
Aniline	NR	NR	NR	NR	NR
Aviation Gas	NR	NR	NR	NR	NR
Barium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Barium Hydroxide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Barium Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Barium Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Benzene	NR	NR	NR	NR	NR
Borax	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Butyric Acid	NR	NR	NR	NR	NR
Calcium Carbonate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Nitrite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Oxide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Chromic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Coal (high and low sulfur)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Copper Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Corn Mash Solution (non-food contact) <sup>1</sup>	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Cyclohexane	NR	NR	NR	NR	NR

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Cyclohexanol	NR	NR	NR	NR	NR
Dibutyl Phthalate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Diocetyl Phthalate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethyl Benzene	NR	NR	NR	NR	NR
Fatty Acids (Greater than C6)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ferric Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Ferric Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Furan	NR	NR	NR	NR	NR
Gasoline (Unleaded)	NR	NR	NR	NR	NR
Glycerin	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Heptane	NR	NR	NR	NR	NR
Hexane	NR	NR	NR	NR	NR
Hexanol	NR	NR	NR	NR	NR
Hydrochloric Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Hydrofluoric Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrogen Sulfide	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Iodine	100°F (38°C)	100°F (38°C)			
Isobutyl Alcohol	NR	NR	NR	NR	NR
Isopropyl Acetate	NR	NR	NR	NR	NR
Isopropyl Alcohol	NR	NR	NR	NR	NR
Jet A Fuel	NR	NR	NR	NR	NR
JP-4 Aviation Fuel	NR	NR	NR	NR	NR
JP-5 Aviation Fuel	NR	NR	NR	NR	NR
Kerosene	NR	NR	NR	NR	NR
Lactic Acid	NR	NR	NR	NR	NR
Lead Acetate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lithium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Lubricating Oil (SAE 5W-40, et al) (Motor Oil)	NR	NR	NR	NR	NR
Methyl Chloride	NR	NR	NR	NR	NR
Methyl Ethyl Ketone	NR	NR	NR	NR	NR
Methyl Propyl Ketone	NR	NR	NR	NR	NR

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Mineral Oil	NR	NR	NR	NR	NR
Mineral Spirits	NR	NR	NR	NR	NR
Naphtha	NR	NR	NR	NR	NR
n-Butyl Acetate (Butyl Acetate)	NR	NR	NR	NR	NR
n-Butyl Alcohol (1-Butanol) (Butanol (Normal))	NR	NR	NR	NR	NR
n-Decyl Alcohol (Decyl Alcohol (1-Decanol))	NR	NR	NR	NR	NR
Nitric Acid	NR	NR	NR	NR	NR
n-Methyl-2-Pyrrolidone	NR	NR	NR	NR	NR
n-Octyl Alcohol (Octanol)	NR	NR	NR	NR	NR
n-Propyl Alcohol (Propyl Alcohol)	NR	NR	NR	NR	NR
Oleic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Perchloroethylene	NR	NR	NR	NR	NR
Petroleum Ether	NR	NR	NR	NR	NR
Phosphoric Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Pine Oil	NR	NR	NR	NR	NR
Potassium Fluoride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Hydroxide	NR	NR	NR	NR	NR
Potassium Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Pulpmill (Black Liquor)	NR	NR	NR	NR	NR
Pulpmill (Green Liquor)	NR	NR	NR	NR	NR
Pulpmill (White Liquor)	NR	NR	NR	NR	NR
Silicone Fluids	NR	NR	NR	NR	NR
Skydrol	NR	NR	NR	NR	NR
Sodium Bicarbonate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Bisulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Bisulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Borate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Carbonate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Carbonate (slurry)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)

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Sodium Chloride (sat'd) (Brine, Water (Sea), Salt Brine)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Fluoride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Hydrosulfide	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Hydroxide (Caustic Soda)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Hypochlorite (Bleach)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Lauryl Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Nitrate (dry)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Silicate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Soybean Oil (non-food contact) <sup>1</sup>	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Styrene	NR	NR	NR	NR	NR
Sulfuric Acid (Sulphuric Acid)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Tall Oil	NR	NR	NR	NR	NR
Tannic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Tartaric Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Tetrahydrofuran	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR
Transmission Fluid	NR	NR	NR	NR	NR
Turpentine	NR	NR	NR	NR	NR
Urea Ammonium Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Vegetable Oil (non-food contact) <sup>1</sup>	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Water (fresh, non-potable)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Xylene	NR	NR	NR	NR	NR
Zinc Bromide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Zinc Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Zinc Phosphate (dry)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Zinc Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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