

RECOMMENDED USE DEFINITIONS

IMMERSION SERVICE (Most Severe) – IS

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

CARGO/TEMPORARY IMMERSION – CI

Suitable for 60 day continuous contact with chemical exposure up to specified temperature. Coating will show no effect except slight softening or color change, possibly permanent, after 60 days or less continuous immersion. When used in transport or hauling conditions, the vessel must be completely drained to prevent puddling that would constitute continuous immersion.

SECONDARY CONTAINMENT – SC

Suitable for continuous contact with chemical for up to 72 hours. 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, possibly permanent, 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 – This chemical has not been tested or evaluated for the listed chemical.

NOT RECOMMENDED – This product is not recommended for the listed exposure. The product's resistance to the listed chemical is often queried, therefore this information is provided as a reference even though the product is not recommended.

IMPORTANT NOTES

The term "chemicals" is used broadly in this guide and can refer to various constituents including, but not limited to, acids, fatty acids, food and beverage materials, finished and unrefined hydrocarbons, as well as individual chemicals and chemical blends.

Temperature can have a significant effect on a coating's chemical resistance. Prior to coating selection, due care should be taken to determine the service temperature of stored chemicals, elevated temperature caused by natural environmental conditions (i.e. radiant heat from sun, weather), and temperature fluctuations during service (i.e. loading of cargo, service cycling).

Chemical mixtures and alternating chemical storage can aggressively degrade a coating or lining system. Prior to coating selection and application, the expected chemical exposures and sequence of chemical storage should be discussed with Tnemec Technical Service to ensure the proper coating is selected.

Proper surface preparation is always important to ensure optimum coating performance but it is even more so for coatings that will undergo chemical exposure. Carefully read product data sheets along with related application guides to determine the required level of surface preparation and surface profile.

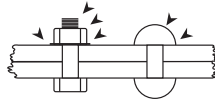
Structural designs of tanks, structures, and containment areas can greatly affect coating performance. Sharp angles, channels, edges, corners, pits, voids, defects, rough welds, and other similar conditions present areas that are either difficult to coat or achieve the required film thickness. Avoid skip welds in favor of continuous welds. A stripe coat on these areas, prior to full coating application, can help achieve needed film thickness and prevent premature coating failure. (Reference NACE SP0178-2007 for more information.)

The length of a coating system's service life depends on surface cleanliness and preparation prior to application, proper application procedures, exposure conditions, physical abuse, cleaning techniques, and frequency of inspection, maintenance, and repair. No coating system has an unlimited service life. Regular inspection of the coating system can prolong service life by identifying areas in need of repair. Additionally, regular inspections can determine when the coating system is nearing its end of service and should be completely replaced.

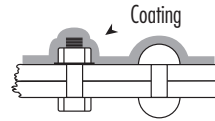
Chemical resistance information is provided for the purpose of establishing a general profile of the coating and was obtained through laboratory testing, field experience, and industry knowledge. Test results were produced in a controlled environment and Tnemec makes no claim that any tests, or published chemical resistance information, accurately represent all environments or correlate to actual field performance. Application, environmental and design factors, chemical temperatures, chemical mixtures, sequence of storage, conditions of service, and cleaning procedures can significantly impact coating performance, so due care must be exercised in the selection and use of the coating. Tnemec disclaims responsibility for product use outside its published information. Contact Tnemec Technical Service to review full project details before the coating or coating system is selected and applied.

COMMON PROBLEM AREAS FOR COATINGS AND SOLUTIONS

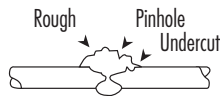
Problem:
Points of failure due to thin spots in coating



Solution:
Carefully and fully coat



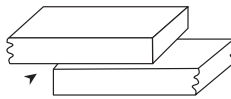
Problem:
Uneven welds



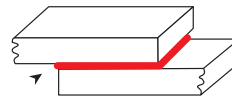
Solution:
Grind smooth



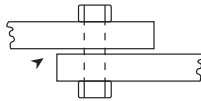
Problem:
Gaps between plates, coating can not cover



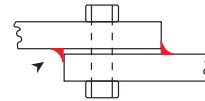
Solution:
Continuous welds



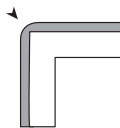
Problem:
Gaps between plates, coating can not cover



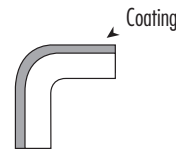
Solution:
Continuous welds



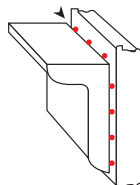
Problem:
Sharp surface contours create thin spots in coating



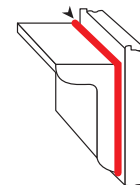
Solution:
Round the contours



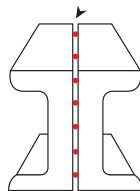
Problem:
Skip welding creates gaps that coating can not cover



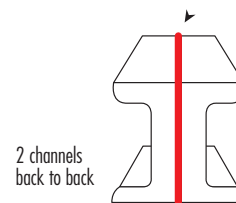
Solution:
Continuous welds



Problem:
Skip welding creates gaps that coating can not cover



Solution:
Continuous welds



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¹ Product is NOT suitable for direct or indirect food contact. Intended Use and temperature information relates to product's performance capabilities only.

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Acetaldehyde	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Acetic Acid					
5%	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
30%	100°F (38°C)	100°F (38°C)			
Acetic Acid, Glacial	100°F (38°C)				
Acetic Anhydride					
100%	100°F (38°C)				
Acetone	100°F (38°C)				
Acetyl Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Acrylic Acid					
100%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Acrylonitrile					
100%	100°F (38°C)	100°F (38°C)			
Adipic Acid					
25%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Allyl Alcohol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Allyl Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Aluminum Bromide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Aluminum Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Aluminum Nitrate					
50%	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Aluminum Sulfate (Alum)					
49%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Bisulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Fluoride	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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Ammonium Hydroxide					
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
30%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Lauryl Sulfate					
30%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Persulfate	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)		
Ammonium Sulfide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Sulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Xylene Sulfonate					
40%	100°F (38°C)	100°F (38°C)			
Amyl Acetate	100°F (38°C)	100°F (38°C)			
Amyl Alcohol	NT	NT	NT	NT	NT
Aniline	100°F (38°C)	100°F (38°C)			
Aniline Hydrochloride	100°F (38°C)	100°F (38°C)			
Antimony Chloride (tri)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Aqua Ammonia	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Aqua Regia	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Arsenous Acid	100°F (38°C)	100°F (38°C)			
Barium Sulfide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Beer (non-food contact) ¹	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Benzal Chloride	NR	NR	NR	NR	NR
Benzaldehyde	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Benzene Sulfonic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Benzene Thiol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Bromine					
5%	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Bromine Gas (Dry)	100°F (38°C)	100°F (38°C)			
Bromine Gas (Wet)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Butyl Acid Levulinic	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Butyl Acrylate	NT	NT	NT	NT	NT
Butyl Amine	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Butyl Ether	100°F (38°C)	100°F (38°C)			
Butyric Acid	100°F (38°C)				
Cadmium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Cadmium Plating (Cyanide)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Bisulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Carbonate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Hydroxide (Lime Slurry)					
30%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Hypochlorite					
5%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Nitrite	NT	NT	NT	NT	NT
Calcium Oxide					
1%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Sulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Caprylic Acid (Octanoic Acid)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Carbon Bisulfide (Di) Fumes (wet)	NT	NT	NT	NT	NT
Carbon Dioxide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Carbon Tetrachloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Castor Oil	100°F (38°C)	100°F (38°C)			
Chloracetic Acid					
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Chlorine Dioxide	NR	NR	NR	NR	NR

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Chloroacetic Acid					
50%	100°F (38°C)	100°F (38°C)			
100%	100°F (38°C)	100°F (38°C)			
Chlorobenzene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Chlorobutane	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Chloroform	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Chlorophenol	100°F (38°C)	100°F (38°C)			
Chlorosulfonic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Chlorotoluene	100°F (38°C)	100°F (38°C)			
Chromic Acid					
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Chromic Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Citric Acid					
50%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Copper Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Copper Plating (Acid)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Copper Plating (Cyanide)	NT	NT	NT	NT	NT
Copper Sulfate					
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
50%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Copper Sulfate (dry)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Corn Oil (non-food contact) ¹	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Cottonseed Oil (non-food contact) ¹	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Cresol	100°F (38°C)	100°F (38°C)			
Cresylic Acid	100°F (38°C)	100°F (38°C)			
Cumene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Cyclohexanone	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Cymene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Dextrose	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Dibromopropane Phosphate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Dichloroacetic Acid					
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Diesel Fuel (Fuel Oil, Diesel Oil)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Diethylene Chloroformate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Diethylketone	100°F (38°C)	100°F (38°C)			
Dimethyl Carbonyl Chloride	100°F (38°C)	100°F (38°C)			
Dimethyl Formamide	100°F (38°C)	100°F (38°C)			
Dimethyl Sulfoxide	100°F (38°C)	100°F (38°C)			
Dimethylaminopropylamine	100°F (38°C)	100°F (38°C)			
Dimethylaniline	100°F (38°C)	100°F (38°C)			
Dinitro Toluene	100°F (38°C)	100°F (38°C)			
Dinitrobenzene	100°F (38°C)	100°F (38°C)			
Dodecyl Alcohol (Lauryl Alcohol)	100°F (38°C)	100°F (38°C)			
Ethoxy Ethanol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethoxylated Nonyl Phenol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethyl Acetate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethyl Acrylate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethyl Bromide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethyl Chloride	100°F (38°C)	100°F (38°C)			
Ethyl Chloroformate	100°F (38°C)	100°F (38°C)			
Ethyl Ether	100°F (38°C)	100°F (38°C)			
Ethyl Hexyl Acrylate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethyl Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethylamine	100°F (38°C)	100°F (38°C)			

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Ethylene Dichloride	100°F (38°C)	100°F (38°C)			
Ethylene Glycol Monobutyl Ether (Butyl "Cellosolve")	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethylene Glycol Monobutyl Ether Acetate (Butyl "Cellosolve" Acetate)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethylene Oxide	100°F (38°C)	100°F (38°C)			
Ferric Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ferric Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Fluorosilicic Acid (Hydrofluorosilicic Acid)					
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
25%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Formaldehyde					
37%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Formic Acid					
10%	100°F (38°C)	100°F (38°C)			
Furfuryl Alcohol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Gasoline (Unleaded)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Glucose (non-food contact) ¹	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Glycol Acid	NT	NT	NT	NT	NT
Gold Plating (Cyanide)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Grape Juice	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrazine					
35%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrazine Hydrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydriodic Acid					
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrobromic Acid					
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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48%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrochloric Acid					
5%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
15%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
28%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
37%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrofluoric Acid					
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrogen Peroxide					
30%	100°F (38°C)				
Hypochlorous Acid	NR	NR	NR	NR	NR
Iodine (Crystals and vapor)	100°F (38°C)	100°F (38°C)			
Isooctylthioglycolcolate	100°F (38°C)	100°F (38°C)			
Isophorone	NR	NR	NR	NR	NR
Isopropyl Acetate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Isopropyl Alcohol	NT	NT	NT	NT	NT
Isopropyl Ether	100°F (38°C)	100°F (38°C)			
Lactic Acid					
85%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lard (non-food contact) ¹	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lauric Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lauryl Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lecithin	NT	NT	NT	NT	NT
Levulinic Acid	100°F (38°C)	100°F (38°C)			
Lithium Hydroxide					

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lithium Hydroxide (saturated)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Maleic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Malic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Mercury and Salts	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Methanol (Methyl Alcohol)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Methyl Acetate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Methyl Amyl Alcohol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Methyl Chloride	100°F (38°C)	100°F (38°C)			
Methyl Ethyl Ketone	100°F (38°C)				
Methyl Isobutyl Ketone	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Methyl Oleate	100°F (38°C)	100°F (38°C)			
Methylene Chloride	NR	NR	NR	NR	NR
Milk (non-food contact) ¹	100°F (38°C)	100°F (38°C)			
Molasses (non-food contact) ¹	100°F (38°C)	100°F (38°C)			
Naphtha	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Naphthalene	NT	NT	NT	NT	NT
Naphthenic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
n-Butyl Acetate (Butyl Acetate)	100°F (38°C)	100°F (38°C)			
Nickel Plating (bright)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Nitric Acid					
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
25%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
70%	NR	NR	NR	NR	NR
Nitrioltriethanol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Nitrobenzene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Nitromethane	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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n-Octyl Alcohol (Octanol)	NT	NT	NT	NT	NT
Oleic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Oxalic Acid					
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Pelargonic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Pentachloroethane	NT	NT	NT	NT	NT
Perchloric Acid					
30%	NT	NT	NT	NT	NT
Phenol (Carbolic Acid)	NT	NT	NT	NT	NT
Phenolsulfonic Acid					
65%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Phosphoric Acid					
5%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
25%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
43%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
85%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Phosphorous Oxychloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Phosphorous Trichloride	100°F (38°C)	100°F (38°C)			
Picric Acid					
10%	100°F (38°C)	100°F (38°C)			
Polyacrylic Acid					
50%	100°F (38°C)	100°F (38°C)			
Polymer Emulsion	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Polymer Mannich	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Acetate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Bicarbonate	100°F (38°C)	100°F (38°C)			

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Potassium Bromide	100°F (38°C)	100°F (38°C)			
Potassium Carbonate					
25%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Chlorate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Cyanide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Hydroxide					
50%	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Potassium Permanganate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Persulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Propanediol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Propylene Glycol	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Pulpmill (Green Liquor)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Pulpmill (White Liquor)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Pyridine	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Rayon Spin Liquor	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Salicylaldehyde	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Salicylic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Silicon Tetrachloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Silver Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Skydrol	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Acetate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Aluminate	NR	NR	NR	NR	NR
Sodium Bicarbonate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Bisulfate					
30%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Bisulfite					

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
38%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Bromate					
5%	NT	NT	NT	NT	NT
Sodium Carbonate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Chlorite (>6 pH)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Chromate					
50%	NT	NT	NT	NT	NT
Sodium Cyanide					
18%	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					
72%	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)	100°F (38°C)
Sodium Hydroxide (Caustic Soda)					
50%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Hypochlorite (Bleach)					
5%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
13%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
15%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Oxalate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Peroxide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Phosphate					
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Polymethacrylate	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)		
Sodium Silicofluoride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Sulfide (all)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Sulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Sodium Tartrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Thiosulfate					
30%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Stannic Chloride (all)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Stannous Chloride (all)	100°F (38°C)	100°F (38°C)			
Stearic Acid (conc)	100°F (38°C)	100°F (38°C)			
Styrene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sugars (non-food contact) ¹	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sulfamic Acid					
25%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sulfite Liquor (paper industry)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sulfur Dioxide (dry)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sulfur Dioxide (wet)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sulfur Trioxide (wet)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sulfuric Acid (Sulphuric Acid)					
5%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
10%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
30%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
50%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
70%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
98%	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)	100°F (38°C)	100°F (38°C)
Tetrachloroethane	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Tetrachloroethylene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Tetrahydrofuran	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Tetrahydrofurfuryl Alcohol	NT	NT	NT	NT	NT
Tetrasodium Pyrophosphate	NR	NR	NR	NR	NR

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Thionyl Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Thionyl Chloride (water solution)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Toluene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Toluenesulfonic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Toluidine	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Trichloroacetic Acid					
20%	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Trichlorobenzene	100°F (38°C)	100°F (38°C)			
Trichloroethylene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Tricresyl Phosphate	100°F (38°C)	100°F (38°C)			
Triethyl Phosphite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Triethylenetetramine	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Vinegar (non-food contact) ¹	NR	NR	NR	NR	NR
Vinyl Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Wine (non-food contact) ¹	100°F (38°C)	100°F (38°C)			
Xylene	100°F (38°C)	100°F (38°C)			
Zinc Plating (Acid Fluoborate)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Zinc Plating (Acid Sulfate)	100°F (38°C)	100°F (38°C)			
Zinc Plating (Cyanide)	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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