

## 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 discoloration, 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 up to 72 hours with chemical exposure or vapors. The coating will show no effects, except slight softening or discoloration, after 72 hours exposure to chemical or vapors. Data references the chemical resistance of the coating. System recommendation may include mat- or aggregate-reinforcement depending on substrate and/or exposure conditions.

### 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 discoloration, 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 discoloration, following short exposure to splash or spillage which evaporates, is hosed off, or dried overnight or, 24 hours exposure to vapor.

### NOT EVALUATED - NE

This chemical has not been evaluated for the listed chemical. Please contact Tnemec Technical Services for more information.

### NOT RECOMMENDED - NR

This product is not recommended for the listed exposure.

## CHEMICAL REFERENCES

The following references may be included in the chemical resistance guide listed below.

- 1 Product is NOT suitable for direct or indirect food contact. Intended Use and temperature information relates to product's performance capabilities only.
- 2 Product is suitable for direct or indirect food contact. Reference product data sheet for more information.
- 3 Service requires elevated temperature post cure (PC) of lining. Reference the product data sheet and application guide for more information.
- 4 System requires use of carbon veil. Reference the product data sheet and application guide for more information.
- 5 System requires use of glass surfacing veil. Reference the product data sheet and application guide for more information.

## 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. Unless otherwise referenced, the concentrations listed are aqueous solutions of the chemicals.

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.

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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
Acetaldehyde	NR	NR	NR	NR	NR
Acetic Acid					
5%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	130°F (54°C) - MB-4.0
10%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	130°F (54°C) - MB-4.0
30%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	130°F (54°C) - MB-4.0
75%	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Acetic Acid, Glacial	100°F (38°C)	100°F (38°C)	NR	NR	NR
Acetic Anhydride	100°F (38°C)	100°F (38°C)	NR	NR	NR
Acetone	100°F (38°C)	100°F (38°C)	NR	NR	NR
Acetonitrile					
20%	120°F (49°C)	120°F (49°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
100%	NR	NR	NR	NR	NR
Acrylic Acid	100°F (38°C)	100°F (38°C)	NR	NR	NR
Acrylonitrile	NR	NR	NR	NR	NR
Activated Carbon (2)	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - SS-4.0	120°F (49°C) - SS-4.0
Adipic Acid (Dry)	100°F (38°C)	100°F (38°C)	NR	NR	NR
Allyl Chloride	100°F (38°C)	100°F (38°C)	NR	NR	NR
Aluminum Chloride					
25%	150°F (66°C)	150°F (66°C)	NR	NR	NR
Aluminum Hydroxide	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Aluminum Nitrate					
50%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	140°F (60°C) - MB-4.0
Ammonium Bisulfite	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Ammonium Carbonate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Ammonium Chloride					
50%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Ammonium Fluoride	120°F (49°C)	120°F (49°C)	NR	NE	NE
Ammonium Hydroxide (Aqua Ammonia)					
10%	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.1	130°F (54°C) - MB-4.1
30%	120°F (49°C)	120°F (49°C)	NR	NR	NR
Ammonium Lauryl Sulfate					
30%	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Ammonium Nitrate					
10%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
20%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
38%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
50%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Ammonium Nitrite					
50%	NR	NR	NR	NR	NR
Ammonium Perchlorate (Dry)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Ammonium Persulfate					
10%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Ammonium Phosphate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Ammonium Sulfate	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Ammonium Sulfide	140°F (60°C)	140°F (60°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Ammonium Sulfite	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Ammonium Thiosulfate					

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
60%	100°F (38°C)	100°F (38°C)	NR	NR	NR
Amyl Acetate	100°F (38°C)	100°F (38°C)	NR	NR	NR
Aniline	NR	NR	NR	NR	NR
Animal Fats	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Aqua Regia	NR	NR	NR	NR	NR
Aviation Gas	NR	NR	NR	NR	NR
Barium Chloride					
50%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Barium Hydroxide					
50%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Barium Nitrate	120°F (49°C)	120°F (49°C)	NR	NR	NR
Barium Sulfate	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Barium Sulfide	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Barley (malt) (2) (3)	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.2	160°F (71°C) - SS-4.2
Beer (2) (3)	140°F (60°C)	140°F (60°C)	NR	120°F (49°C) - SS-4.0	120°F (49°C) - SS-4.0 •
Beet (liquor) (2) (3)	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.2	160°F (71°C) - SS-4.2
Benzene	NR	NR	NR	NR	NR
Benzene Sulfonic Acid	120°F (49°C)	120°F (49°C)	NR	NR	NR
Benzoic Acid	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Benzoyl Chloride	120°F (49°C)	120°F (49°C)	NR	NR	NR
Benzyl Alcohol	100°F (38°C)	100°F (38°C)	NR	NR	NR
Benzyl Chloride	120°F (49°C)	120°F (49°C)	NR	NR	NR
Biodiesel (<2% FAME)	150°F (66°C)	150°F (66°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Black Liquor	150°F (66°C)	150°F (66°C)	NR	NE	NE
Boric Acid					

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5%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Brake Fluid (DOT 3)	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
Brine chlorinated (ph 5-9) <12,000 ppm chlorides	NR	NR	NR	NR	NR
Brown Stock	160°F (71°C)	160°F (71°C)	NR	150°F (66°C) - SS-4.2	150°F (66°C) - SS-4.2
Butyl Acrylate	100°F (38°C)	100°F (38°C)	NR	NR	NR
Butyl Amine	NR	NR	NR	NR	NR
Butyric Acid	140°F (60°C)	140°F (60°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Cadmium Bromide					
10%	NR	NR	NR	NR	NR
Cadmium Chloride	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	130°F (54°C) - MB-4.0
Cadmium Plating (Cyanide)	140°F (60°C)	140°F (60°C)	NR	NR	NR
Calcium Bisulfate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	130°F (54°C) - MB-4.0
Calcium Bromide	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Calcium Carbonate (Limestone Slurry)	140°F (60°C)	140°F (60°C)	NR	NE	NE
Calcium Chloride	130°F (54°C)	130°F (54°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Calcium Hydroxide (Lime Slurry)					
30%	140°F (60°C)	140°F (60°C)	NR	NE	NE
100%	180°F (82°C)	180°F (82°C)	NR	NE	NE
Calcium Hypochlorite					
5%	120°F (49°C)	120°F (49°C)	NR	NR	NR
Calcium Nitrate	120°F (49°C)	120°F (49°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Calcium Nitrite	120°F (49°C)	120°F (49°C)	NR	NR	NR
Calcium Sulfate	120°F (49°C)	120°F (49°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Calcium Sulfite	140°F (60°C)	140°F (60°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1

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Caprolactam	120°F (49°C)	120°F (49°C)	NR	NR	NR
Caramel (2) (3)	140°F (60°C)	140°F (60°C)	NR	120°F (49°C) - SS-4.0	120°F (49°C) - SS-4.0
Carbon Disulfide	100°F (38°C)	100°F (38°C)	NR	NE	NE
Carbon Tetrachloride	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Cashew Nut Oil (2) (3)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Castor Oil (2) (3)	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.2	160°F (71°C) - SS-4.2
Chlorinated Pulp	170°F (77°C)	170°F (77°C)	NR	PC	PC
Chlorine Dioxide (gas)	120°F (49°C)	120°F (49°C)	NR	NR	NR
Chlorine Dioxide (Wet, Saturated)	130°F (54°C)	130°F (54°C)	NR	NE	NE
Chlorine Dioxide Generator	150°F (66°C)	150°F (66°C)	NR	NR	NR
Chlorobenzene	120°F (49°C)	120°F (49°C)	NR	NR	NR
Chloroform	120°F (49°C)	NR	NR	NR	NR
Chlorosulfonic Acid	NR	NR	NR	NR	NR
Chromic Acid					
10% (3)	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - SS-4.1	130°F (54°C) - SS-4.1
20% (3)	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - SS-4.1	130°F (54°C) - SS-4.1
25%	100°F (38°C)	100°F (38°C)	NR	NR	NR
Citric Acid					
50% (2) (3)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.2	150°F (66°C) - SS-4.2
Coal (high and low sulfur)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Cobalt Chloride	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Cobalt Citrate	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Coconut Oil (refined) (2) (3)	170°F (77°C)	170°F (77°C)	NR	170°F (77°C) - SS-4.2	170°F (77°C) - SS-4.2
Cod Liver Oil (2) (3)	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - SS-4.0	100°F (38°C) - SS-4.0

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Cola (2) (3)	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - SS-4.0	120°F (49°C) - SS-4.0 •
Copper (I) Chloride (Cuprous Chloride)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Copper Acetate					
50%	150°F (66°C)	150°F (66°C)	NR	NR	NR
Copper Sulfate					
10%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
20%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
50%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Copper Sulfate (dry)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Corn Mash Solution (2) (3)	180°F (82°C)	180°F (82°C)	NR	180°F (82°C) - SS-4.2	180°F (82°C) - SS-4.2
Corn Oil (2) (3)	180°F (82°C)	180°F (82°C)	NR	180°F (82°C) - SS-4.2	180°F (82°C) - SS-4.2 •
Corn Starch (2) (3)	180°F (82°C)	180°F (82°C)	NR	180°F (82°C) - SS-4.2	180°F (82°C) - SS-4.2
Corn Syrup (white) (2) (3)	180°F (82°C)	180°F (82°C)	NR	180°F (82°C) - SS-4.2	180°F (82°C) - SS-4.2
Cottonseed Oil (2) (3)	170°F (77°C)	170°F (77°C)	NR	170°F (77°C) - SS-4.2	170°F (77°C) - SS-4.2
Cresylic Acid (Cresol )	NR	NR	NR	NR	NR
Crude Oil (Sour)	180°F (82°C)	180°F (82°C)	NR	NR	NR
Crude Oil (Sweet)	180°F (82°C)	180°F (82°C)	NR	NR	NR
Cumene	110°F (43°C)	110°F (43°C)	NR	NR	NR
Cumene Hydroperoxide	NR	NR	NR	NR	NR
Cyclohexane	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Cyclohexanol	NR	NR	NR	NR	NR
Cyclohexanone	NR	NR	NR	NR	NR
Cyclohexylamine	NR	NR	NR	NR	NR
Dextrose (2) (3) (d-glucose)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.0	140°F (60°C) - SS-4.0

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Diacetone Alcohol	NR	NR	NR	NR	NR
Dichloroacetic Acid					
20%	140°F (60°C)	140°F (60°C)	NR	110°F (43°C) - MB-4.1	110°F (43°C) - MB-4.1
Diethanolamine	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Diethylene Glycol	130°F (54°C)	130°F (54°C)	NR	NE	NE
Diethylene Glycol Monobutyl Ether (Butyl "Carbitol")	NE	NE	NR	NE	NE
Diethylene Glycol Monobutyl Ether Acetate (Butyl "Carbitol" Acetate)	NE	NE	NR	NE	NE
Diethylenetriamine	140°F (60°C)	140°F (60°C)	NR	NR	NR
Dimethyl Formamide	140°F (60°C)	140°F (60°C)	NR	NR	NR
Dioctyl Phthalate	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Dipropylene Glycol	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Dodecyl Alcohol (Lauryl Alcohol)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Ethanol (Denatured Alcohol, Ethyl Alcohol)					
50%	100°F (38°C) - SS-4.0*	100°F (38°C) - SS-4.0*	100°F (38°C) - SS-4.0*	100°F (38°C) - SS-4.0*	100°F (38°C) - SS-4.0*
70%	NR	NR	NR	NR	NR
95%	NR	NR	NR	NR	NR
100%	NR	NR	NR	NR	NR
Ethanolamine	NE	NE	NR	NE	NE
Ethyl Acetate	NR	NR	NR	NR	NR
Ethyl Benzene	NR	NR	NR	NR	NR
Ethylamine					
20%	NR	NR	NR	NR	NR
Ethylene Glycol	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-3.0	140°F (60°C) - MB-3.0
Ethylene Glycol Monobutyl Ether (Butyl "Cellosolve")	100°F (38°C)	100°F (38°C)	NR	NR	NR

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Ethylene Glycol Monobutyl Ether Acetate (Butyl "Cellosolve" Acetate)	120°F (49°C)	NR	NR	NE	NE
Ethylenediamine					
20%	NR	NR	NR	NR	NR
Fatty Acids (Greater than C6)	150°F (66°C)	150°F (66°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Ferric Chloride	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Ferric Nitrate	120°F (49°C)	120°F (49°C)	NR	NE	NE
Ferric Sulfate					
20%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
60%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Ferrous Chloride	150°F (66°C)	150°F (66°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Flue Gas (dry)	250°F (121°C)	250°F (121°C)	NR	250°F (121°C) - MB-4.0	250°F (121°C) - MB-4.0
Flue Gas (wet)	180°F (82°C)	180°F (82°C)	NR	NE	NE
Fluoboric Acid	NE	NE	NE	NE	NE
Fluorosilicic Acid (Hydrofluorosilicic Acid)					
10%	100°F (38°C)	100°F (38°C)	NR	NR	NR
Formaldehyde					
37%	NR	NR	NR	NR	NR
Formic Acid					
10%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
25%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.1	140°F (60°C) - SS-4.1
Fructose (2) (3)	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.0	160°F (71°C) - SS-4.0
Furan	NR	NR	NR	NR	NR
Furfural					
10%	NE	NE	NR	NE	NE

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Furfuryl Alcohol	NE	NE	NR	NE	NE
Gasoline (Unleaded)	NR	NR	NR	NR	NR
Glucose (2) (3) (l-glucose)	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.0	160°F (71°C) - SS-4.0
Glycerin	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Glycol	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.1	160°F (71°C) - SS-4.1
Glycolic Acid					
70%	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Gold Plating Solution	120°F (49°C)	120°F (49°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Grape Juice (1) (3)	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - SS-4.0	130°F (54°C) - SS-4.0
Grapefruit Juice (2) (3)	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - SS-4.0	130°F (54°C) - SS-4.0
Green Liquor	140°F (60°C)	140°F (60°C)	NR	NE	NE
Guar Gum (1)	100°F (38°C)	100°F (38°C)	NR	NR	NR
Hand Cleaner (2)	NR	NR	NR	NR	NR
Heptane	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Hexane	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Hexanol	NR	NR	NR	NR	NR
Hydraulic Fluid (Hydraulic Oil)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Hydrobromic Acid					
20%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
48%	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Hydrochloric Acid					
5%	120°F (49°C)	120°F (49°C)	NR	NR	NR
10%	120°F (49°C)	120°F (49°C)	NR	NR	NR
15%	120°F (49°C)	120°F (49°C)	NR	NR	NR

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20%	120°F (49°C)	120°F (49°C)	NR	NR	NR
28%	120°F (49°C)	120°F (49°C)	NR	NR	NR
33%	100°F (38°C)	100°F (38°C)	NR	NR	NR
37%	100°F (38°C)	100°F (38°C)	NR	NR	NR
Hydrofluoric Acid					
10%	100°F (38°C)	100°F (38°C)	NR	NE	NE
20%	100°F (38°C)	100°F (38°C)	NR	NE	NE
Hydrofluoroboric Acid					
62%	100°F (38°C)	100°F (38°C)	NR	NR	NR
Hydrogen Peroxide					
30%	NR	NR	NR	NR	NR
Hydrogen Sulfide	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Iodine					
5%	130°F (54°C)	130°F (54°C)	NR	NE	NE
Isobutyl Acetate	120°F (49°C)	120°F (49°C)	NR	NR	NR
Isobutyl Alcohol	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Isopropyl Alcohol (Isopropanol)	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Jet A Fuel	100°F (38°C)	100°F (38°C)	NR	NR	NR
JP-4 Aviation Fuel	100°F (38°C)	100°F (38°C)	NR	NR	NR
JP-5 Aviation Fuel	100°F (38°C)	100°F (38°C)	NR	NR	NR
Kaolin	NR	NR	NR	NR	NR
Kerosene	130°F (54°C)	130°F (54°C)	NR	NE	NE
Lactic Acid					
10% (3)	180°F (82°C)	180°F (82°C)	NR	180°F (82°C) - SS-4.2	180°F (82°C) - SS-4.2
85% (3)	180°F (82°C)	180°F (82°C)	NR	180°F (82°C) - SS-4.2	180°F (82°C) - SS-4.2
100% (3)	180°F (82°C)	180°F (82°C)	NR	180°F (82°C) - SS-4.2	180°F (82°C) - SS-4.2
Lauryl Chloride	110°F (43°C)	110°F (43°C)	NR	110°F (43°C) - MB-4.0	110°F (43°C) - MB-4.0

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Lead Acetate	120°F (49°C)	120°F (49°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Levulinic Acid	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Linseed Oil (2) (3)	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.2	160°F (71°C) - SS-4.2
Lithium Bromide	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Lithium Chloride	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Lithium Hydroxide (saturated)	NE	NE	NR	NE	NE
LPG (gas)	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Lubricating Oil (SAE 5W-40, et al) (Motor Oil)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Magnesium Bisulfite	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Magnesium Chloride					
50%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Magnesium Hydroxide					
50%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Magnesium Sulfate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Maleic Acid					
50%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Maleic Anhydride	120°F (49°C)	120°F (49°C)	NR	NR	NR
Malic Acid	100°F (38°C)	100°F (38°C)	NR	NR	NR
Mercuric Chloride	130°F (54°C)	130°F (54°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Mercury	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Methacrylic Acid	NR	NR	NR	NR	NR
Methane Gas	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Methanol (Methyl Alcohol)	100°F (38°C)	100°F (38°C)	NR	NE	NE

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Methyl Acetate	NR	NR	NR	NR	NR
Methyl Acrylate	120°F (49°C)	NR	NR	NR	NR
Methyl Amyl Ketone	70°F (21°C)	70°F (21°C)	NR	NR	NR
Methyl Ethyl Ketone	70°F (21°C)	70°F (21°C)	NR	NR	NR
Methyl Isobutyl Chloride	120°F (49°C)	120°F (49°C)	NR	NR	NR
Methyl Isobutyl Ketone	100°F (38°C)	100°F (38°C)	NR	NR	NR
Methyl Methacrylate	100°F (38°C)	100°F (38°C)	NR	NR	NR
Methyl Propyl Ketone	NR	NR	NR	NR	NR
Methyl tert-Butyl Ether (MTBE)	NR	NR	NR	NR	NR
Methylene Chloride	120°F (49°C)	NR	NR	NR	NR
Methylstyrene (alpha)	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
Milk (2) (3)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.0	150°F (66°C) - SS-4.0
Milk Whey (2) (3)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.0	150°F (66°C) - SS-4.0
Mineral Oil	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.2	160°F (71°C) - SS-4.2
Mineral Spirits	NR	NR	NR	NR	NR
Molasses (2) (3)	170°F (77°C)	170°F (77°C)	NR	170°F (77°C) - SS-4.2	170°F (77°C) - SS-4.2
Morpholine	NE	NE	NR	NE	NE
Mustard (2) (3)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.2	140°F (60°C) - SS-4.2
Naphtha	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Naphthalene	120°F (49°C)	130°F (54°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Naphthenic Acid	110°F (43°C)	110°F (43°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
n-Butyl Acetate (Butyl Acetate)	120°F (49°C)	120°F (49°C)	NR	NR	NR
n-Butyl Alcohol (1-Butanol) (Butanol (Normal))	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
n-Decyl Alcohol (Decyl Alcohol (1-Decanol))	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0

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Nickel Chloride	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Nitric Acid					
5%	130°F (54°C)	130°F (54°C)	NR	NE	NE
10%	120°F (49°C)	120°F (49°C)	NR	NE	NE
20%	120°F (49°C)	120°F (49°C)	NR	NE	NE
25%	140°F (60°C)	NR	NR	NE	NE
60%	NR	NR	NR	NR	NR
70%	NR	NR			
Nitrobenzene	NR	NR	NR	NR	NR
n-Methyl-2-Pyrrolidone	NE	NE	NR	NR	NR
n-Octyl Alcohol (Octanol)	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
n-Propyl Alcohol (Propyl Alcohol)	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
Oleic Acid	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Olive Oil (2) (3)	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.2	160°F (71°C) - SS-4.2
Oxalic Acid					
10%	120°F (49°C)	120°F (49°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
Ozone <2 ppm	NR	NR	NR	NR	NR
Palm Oil (2) (3)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.2	140°F (60°C) - SS-4.2
Pentane	NR	NR	NR	NR	NR
Perchloric Acid					
30%	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
Perchloroethylene (Tetrachloroethylene)	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
Petroleum Ether	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Phosphoric Acid					
5%	150°F (66°C)	150°F (66°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0

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10%	150°F (66°C)	150°F (66°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
25%	150°F (66°C)	150°F (66°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
43%	150°F (66°C)	150°F (66°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
85%	150°F (66°C)	150°F (66°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
115%	150°F (66°C)	150°F (66°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Phosphorous	NE	NE	NR	NE	NE
Phosphorous Acid	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Phthalic Acid (all)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Picric Acid (conc)	NR	NR	NR	NR	NR
Pine Oil	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Polyethylene Glycol	160°F (71°C)	160°F (71°C)	NR	160°F (71°C) - SS-4.1	160°F (71°C) - SS-4.1
Polypropylene	NE	NE	NR	NE	NE
Polystyrene	NE	NE	NR	NE	NE
Polytetrafluoroethane	NE	NE	NR	NE	NE
Polyvinyl Acetate Emulsion	NE	NE	NR	NE	NE
Polyvinyl Chloride	NE	NE	NR	NE	NE
Potash Ore	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-3.0	120°F (49°C) - MB-3.0
Potassium Acetate	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Potassium Bromide	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Potassium Carbonate					
25%	NR	NR	NR	NE	NE
50%	NR	NR	NR	NE	NE
Potassium Chlorate	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Potassium Chloride	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0

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Potassium Cyanide	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Potassium Ferricyanide	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Potassium Fluoride	120°F (49°C)	120°F (49°C)	NR	NE	NE
Potassium Hydroxide					
50%	140°F (60°C)	140°F (60°C)	NR	NR	NR
Potassium Iodide	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Potassium Nitrate	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Potassium Permanganate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Potassium Persulfate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Potassium Sulfate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Propane	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Propanol	NR	NR	NR	NR	NR
Propionic Acid					
20%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
50%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
100%	100°F (38°C)	100°F (38°C)	NR	80°F (27°C) - MB-4.0	80°F (27°C) - MB-4.0
Proponal (fumes)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Propylene Glycol	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Pulpmill (Black Liquor)	140°F (60°C)	140°F (60°C)	NR	NE	NE
Pulpmill (Green Liquor)	140°F (60°C)	140°F (60°C)	NR	NE	NE
Pulpmill (White Liquor)	130°F (54°C)	130°F (54°C)	NR	NE	NE
Pyridine					
20%	NR	NR	NR	NR	NR
Silver Nitrate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0

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Sodium Acetate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Aluminate	NE	NE	NR	NE	NE
Sodium Bisulfate					
30%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Sodium Bisulfite					
38%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Borate (Borax)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Sodium Bromide (all)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Sodium Carbonate (sat'd)	NE	NE	NR	NE	NE
Sodium Carbonate (slurry)	NE	NE	NR	NE	NE
Sodium Chlorate					
50%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Chloride (sat'd) (3) (Brine, Water (Sea), Salt Brine)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Sodium Chlorite (>6 pH)	NR	NR	NR	NR	NR
Sodium Chromate					
50%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Cyanide	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Dichromate (all)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Fluoride	NR	NR	NR	NR	NR
Sodium Formate					
50%	120°F (49°C)	120°F (49°C)	NR	NE	NE
Sodium Hydrosulfide					
45%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Hydrosulfite					
10%	130°F (54°C)	130°F (54°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0

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Sodium Hydroxide (Caustic Soda)					
50%	150°F (66°C)	150°F (66°C)	NR	NR	NR
Sodium Hypochlorite (Bleach)					
6%	120°F (49°C)	120°F (49°C)	NR	NR	NR
13%	100°F (38°C)	100°F (38°C)	NR	NR	NR
15%	100°F (38°C)	100°F (38°C)	NR	NR	NR
Sodium Lauryl Sulfate	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Nitrate					
40%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Nitrate (dry)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Oxalate	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Sodium Phosphate					
10%	120°F (49°C)	120°F (49°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Sodium Silicate	120°F (49°C)	120°F (49°C)	NR	NR	NR
Sodium Sulfate					
6%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Sodium Sulfide (all)	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Sodium Sulfite	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Sodium Thiosulfate					
30%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Soy Sauce (2) (3)	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.2	150°F (66°C) - SS-4.2
Soybean Oil (2)	NE	NE	NE	NE	NE
Soybean Oil (ESO) (2)	NE	NE	NE	NE	NE
Spearmint Oil (2) (3)	120°F (49°C)	120°F (49°C)	NR	100°F (38°C) - SS-4.0	100°F (38°C) - SS-4.0

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Stannic Chloride (all)	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Stannous Chloride (all)	130°F (54°C)	130°F (54°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0
Stearic Acid (conc)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Stoddard Solvent	NR	NR	NR	NR	NR
Styrene	100°F (38°C)	100°F (38°C)	NR	90°F (32°C) - SS-4.1	90°F (32°C) - SS-4.1
Sugars (2) (3)	170°F (77°C)	170°F (77°C)	NR	170°F (77°C) - SS-4.2	170°F (77°C) - SS-4.2
Sulfite Liquor (paper industry)	PC	PC	NR	PC	PC
Sulfur Dioxide (dry)	250°F (121°C)	250°F (121°C)	NR	250°F (121°C) - MB-4.0	250°F (121°C) - MB-4.0
Sulfur Dioxide (wet)	180°F (82°C)	180°F (82°C)	NR	NE	NE
Sulfuric Acid (Sulphuric Acid)					
5%	140°F (60°C)	140°F (60°C)	NR	NE	NE
10%	140°F (60°C)	140°F (60°C)	NR	NE	NE
30%	140°F (60°C)	140°F (60°C)	NR	NE	NE
50%	110°F (43°C)	110°F (43°C)	NR	NE	NE
70%	110°F (43°C)	110°F (43°C)	NR	NR	NR
98%	120°F (49°C)	NR	NR	NR	NR
Sulfurous Acid					
10%	100°F (38°C)	100°F (38°C)	NR	NE	NE
Tall Oil	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.1	140°F (60°C) - SS-4.1
Tannic Acid	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Tartaric Acid (2) (3)	170°F (77°C)	170°F (77°C)	NR	170°F (77°C) - SS-4.2	170°F (77°C) - SS-4.2
Tetrahydrofuran	120°F (49°C)	NR	NR	NR	NR
Toluenesulfonic Acid	0°F (-18°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.2	150°F (66°C) - SS-4.2
Tomato Sauce (2) (3)	170°F (77°C)	170°F (77°C)	NR	170°F (77°C) - SS-4.2	170°F (77°C) - SS-4.2

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Transmission Fluid	NR	NR	NR	NR	NR
Trichloroethylene (Vinyl Trichloride)	NR	NR	NR	NR	NR
Trichlorofluoroethane	NR	NR	NR	NR	NR
Triethanolamine (TEA)	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Triethylamine	100°F (38°C)	100°F (38°C)	NR	NR	NR
Triethylenetetramine	NR	NR	NR	NR	NR
Trisodium Phosphate (Sodium Phosphate (Tribasic))					
20%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.1	150°F (66°C) - SS-4.1
Turpentine	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - SS-4.2	150°F (66°C) - SS-4.2
Urea					
50%	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Urea Ammonium Nitrate					
32%	150°F (66°C)	150°F (66°C)	NR	150°F (66°C) - MB-4.0	150°F (66°C) - MB-4.0
Vanillin (Black Liquor) (2)	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - SS-4.0	120°F (49°C) - SS-4.0
Vegetable Oil (1)	NE	NE	NR	NE	NE
Vinegar (2) (3)	170°F (77°C)	170°F (77°C)	NR	170°F (77°C) - SS-4.2	170°F (77°C) - SS-4.2
Water (deionized, non-potable) (1) (3) (Water (Demineralized, Non-potable))	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.1	140°F (60°C) - SS-4.1
Water (distilled, non-potable) (1) (3)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.1	140°F (60°C) - SS-4.1
Water (fresh, non-potable) (3)	140°F (60°C)	140°F (60°C)	NR	140°F (60°C) - SS-4.1	140°F (60°C) - SS-4.1
White Liquor	130°F (54°C)	130°F (54°C)	NR	NE	NE
Xylene	100°F (38°C)	100°F (38°C)	NR	100°F (38°C) - MB-4.0	100°F (38°C) - MB-4.0
Zinc Bromide	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Zinc Chloride					

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40%	120°F (49°C)	120°F (49°C)	NR	120°F (49°C) - MB-4.0	120°F (49°C) - MB-4.0
Zinc Phosphate (dry)	120°F (49°C)	120°F (49°C)	NR	140°F (60°C) - MB-4.0	140°F (60°C) - MB-4.0
Zinc Sulfate	120°F (49°C)	120°F (49°C)	NR	130°F (54°C) - MB-4.0	130°F (54°C) - MB-4.0

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