

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

N/A = Information Not Available.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hyrel® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Acetaldehyde	A	A	D	A	D	D	A	A	B	C	C	N/A	C	C	N/A	A	D	C ¹	A ¹	A	D	D	A	A	D	D
Acetamide	B	A	D	A	D	A ¹	A	A	N/A	A ²	C ¹	A	D	B	N/A	A	N/A	D	A ¹	A	D	D	B	N/A	D	D
Acetic Acid	D	B	D	D	C	C	A	A	A	A	A	B	B	C	A	D	N/A	B	B	A	D	C	C	A	D	B
Acetic Acid, 5%	A	A	N/A	A	B	A	A	A	A	A	A	A	B	A	A	C	A ¹	A	A	A	A	A	A	A	A	A
Acetic Acid 20%	B	A	C	C	B	A	A	A	A	A	A	A	B	A	A	D	A ¹	A ¹	A	A	D	A	B	A	D	B
Acetic Anhydride	B	A	C	D	D	D	B	A	C	C	D	N/A	C	A	D	A	D	D	B	A	D	B	C	A	D	D
Acetylene	A	A	N/A	A	B	C	A	N/A	A	N/A	D	N/A	B	B	N/A	A	N/A	D	A ¹	A	A	A	B	N/A	A	A
Acrylonitrile	A	A	D	N/A	D	A	D	B	N/A	A	A	N/A	B	C	N/A	A ¹	D	D	A ¹	A	B	A ¹	D	N/A	N/A	D
Alcohols: Amyl	A	A	A	A	B	A	A	A	A	A	B ²	A ¹	B	A	C	A ¹	D	B ¹	B ¹	A	A	A	D	B	D	A
Alcohols: Benzyl	B	B	D	A	D	A	B	A	N/A	B	D	D	D	C	D	B ¹	D	D	A	A	D	A	N/A	A	D	A
Alcohols: Butyl (Butanol)	A	A ¹	D	A	A	A	A	B	B	N/A	B ²	N/A	A	A	A	B ¹	C	B ¹	A ¹	A	C	A	B	B	B	A
Alcohols: Ethyl	A	A	B	A ¹	C	B	A	A	D	A	B	N/A	A	A	A	A ¹	B	B ²	A	A	C	A	B	A	C	A
Alcohols: Isobutyl	A	A	B	A	B	N/A	A	A	N/A	A	A	N/A	A	A	A	A	C	A	A	A	A	A	A	B	A	A
Alcohols: Isopropyl (IPA, Isopropanol), 70%	B	B	D	A	B	C	A	A	A	A	A ²	C ¹	A	B	A	D	C	A ²	A ²	A	A	A	A	B	A	A
Alcohols: Methyl	A	A	D	A	A	A	A	A	B	A	A ¹	C ¹	A	A	A	B ¹	C	B ¹	A ²	A	A	A	A	B	A	C
Alcohols: Propyl (1-Propanol)	A	A	B	A	A	A	A	A	N/A	N/A	A ²	N/A	A	A	A	D	N/A	A	A	A	A	A ²	A	A	A	A
Aluminum Fluoride	D	D	A	C	A	A	A	B	N/A	A	A ²	N/A	B	A	A	A ¹	N/A	N/A	A	A	A	A	B	A	A	A
Aluminum Hydroxide	A	C ¹	B	A	A	A	A	B	N/A	A	A ²	N/A	D	A	A	A ¹	B ¹	B ¹	A	A	A	A	N/A	B	A	A
Aluminum Nitrate	A	A	A ²	B ¹	A	A	A	N/A	N/A	N/A	A ²	N/A	A	A	N/A	A ¹	D	A ¹	A ²	A	B	A	B	A	B	A
Aluminum Sulfate	B	B ²	A	B ¹	A	A	A	B	B	A	A ²	A	A	A	A	A ²	D	A	A	A	A	A	A	A	A	A
Alums (Double Sulfate Salts)	N/A	A	A ²	N/A	A	A	A	B	D	N/A	A	A	B	N/A	A	D	N/A	A	A	A	A	N/A	A	A	N/A	A
Amines	A	A	N/A	D	D	D	B	B	A	B	C ¹	N/A	B	B	D	D	N/A	D	B ²	A	D	N/A	B	B	D	D
Ammonia, 10%	A	A	N/A	D	A	A	A	A	N/A	A	C ¹	A	D	A	A	A	B ¹	D	A ²	A	B	A	N/A	C	B	D
Ammonia, anhydrous	A	A ²	D	D	B	A	A	B	D	A	B ²	N/A	D	A	B	A ¹	A ¹	D	A	A	A	A	C	A	A	D
Ammonia, liquid	B	A ²	D	D	C	A	A	B	N/A	A	C ¹	N/A	D	A	N/A	B ¹	A ¹	D	A ²	A	A	A	N/A	C	A	D

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. **N/A** = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hyrel® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Ammonium Acetate	B	A	N/A	N/A	B	A	A	N/A	N/A	A	A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	N/A	N/A	A	A
Ammonium Bifluoride	D	B ¹	A	D	B	A	A	B	N/A	N/A	A ²	N/A	N/A	D	A	N/A	N/A	N/A	A	A	A	A	N/A	N/A	A	A
Ammonium Carbonate	B	B	A	D	B	A	A	B	N/A	B	B ²	A	A	A	A	A ¹	N/A	C	A	A	A	A	C	A	A	A
Ammonium Chloride	C	B ²	A	B	B	A	A	D	A	A	A ²	A	A	B	A	B	A ¹	A ²	A	A	A	A	C	A	A	A
Ammonium Hydroxide	A	A ¹	B	C	D	A	A	B	C	A	A ¹	N/A	D	A	A	A	A	D	A	A	A	A	A	A	A	B
Ammonium Nitrate	A	A	A ²	A ²	A	A	A	B	B	A	A ¹	A	C	B	A	A ¹	A	R	A	A	A	A	C	A	A	A
Ammonium Persulfate	A	B	A	D	A	A	B	B	N/A	A	A ²	N/A	A	A	A	D	N/A	A	A	A	A	A ¹	D	A	A	A
Ammonium Phosphate, Dibasic	B	C	A ²	B ²	A	A	A	B	N/A	N/A	A ²	N/A	A	A	A	C ¹	A	A ²	A	A	A	A	A	A	A	A
Ammonium Phosphate, Monobasic	B	C	A ²	B	A	A	A	B	B	N/A	A	N/A	A	A	A	B	A	A ¹	A	A	A	N/A	A	A	A	A
Ammonium Phosphate, Tribasic	B	B	A ²	B	A	A	A	B	N/A	N/A	C	N/A	A	A	A	B	A	A	A	A	A	N/A	A	A	A	A
Ammonium Sulfate	B	B	A	B ¹	A	A	A	B	B	A	A ¹	A	A	A	A	A ¹	A	A ²	A	A	A	A	A	A	A	A
Ammonium Thiosulfate	A	A	N/A	B	A	N/A	A	N/A	N/A	N/A	A	N/A	N/A	A	N/A	N/A	A	N/A	N/A	N/A	A ²	N/A	N/A	A	N/A	N/A
Amyl Acetate	A	A	D	B	D	D	A	A	C	N/A	C	D	D	D	D	B	D	D	B	A	D	A	D	A	D	D
Amyl Chloride	A	A	D	A	D	C	D	A	N/A	B	D	N/A	D	D	D	C	A	D	D	A	D	A	D	C	C	B
Antifreeze (Ethylene Glycol)	A	A	B	D	A	A	A	A	A	A	A ²	N/A	A	C	A	D	B ¹	B ¹	D	A	A	A	C	A ¹	B	A
Arsenic Acid	A	A	A	D	A	A	A	B	N/A	B	B	N/A	B	A	A	C	N/A	A	A	A	A	A	A	B	B	A
Barium Carbonate	B	B	A	A	A	A	A	B	N/A	N/A	B	A	N/A	N/A	A	A	N/A	A	A	A	A	A	N/A	A	N/A	A
Barium Sulfate	B	B ¹	A	B ²	A	B	A	A	D	B	B ²	N/A	A	A	A	A ¹	N/A	D	B ¹	A	B	A	A	B	N/A	A
Barium Sulfide	B	B ²	A	A	A	A	A	N/A	N/A	A	B ²	N/A	A	A	A	A ¹	N/A	N/A	B	A	A	A	A	A	N/A	A
Benzaldehyde	B	B	B	A	D	D	A	A	B	B	A ¹	D	D	D	B	A ¹	C ¹	D	D	A	D	A ²	D	A	D	D
Benzene	B	B	D	A ¹	D	D	D	B	C	D	C	D	D	D	D	A ¹	D	D	D	A	C	A ²	D	A	C	A
Benzene Sulfonic Acid	B	B	N/A	N/A	D	D	D	B	B	A	A ¹	N/A	A	A	A	D	N/A	D	D	A	A	A ¹	D	B	B	A
Benzoic Acid	B	B	D	B	D	A	D	B	D	A	A ¹	A	D	B	B	D	A ¹	B ¹	B ¹	A	A	A	B	A	A	A
Benzyl Chloride	C	B ¹	D	A	D	A ¹	D	C	D	N/A	N/A	N/A	D	D	D	A ²	N/A	N/A	C ¹	A	D	A	D	N/A	N/A	A
Betadine (Povidone Iodine, PVP-I), 10%	A	A	D	D	B	D	B	A	B	B	A ¹	C	D	D	C ¹	A	D	B ¹	A ¹	A	A	A ²	D	A	A	A

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. N/A = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hyrel® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Bleach (Sodium Hypochlorite), 5.25%	A	A	B	D	D	A	B	A	C	A	A ¹	A	D	B	A	A	A	A	D	A	A	A	D	A	B	A
Bleach (Sodium Hypochlorite), 15%	A	A	B	D	D	A	B	A	C	A	A ¹	A	D	B	A	A	A	A	D	A	A	A	D	A	B	A
Borax (Sodium Borate), 6% aqueous	A	A	A ²	B	B	A	A	B	A	A	A ²	A	A	A	A	A ¹	N/A	A ¹	A ²	A	A	A	B	B	A	A
Boric Acid	B	A ¹	A ²	A	A	A	A	A	A	A	A ²	A	A	D	A	B	N/A	A	A	A	A	A	A	A	A	A
Bromine	D	D	D	D	D	D	D	A	D	D	D	D	D	D	A	D	D	C ¹	D	A	C	A	D	D	B	A
Butadiene	A	A ¹	N/A	A	D	A	C	C	D	D	D	N/A	D	B	D	C ¹	B	D	C	A	C	A	D	N/A	A	B
Butanol (Butyl Alcohol)	A	A ¹	D	A	A	A	A	B	B	N/A	B ²	N/A	A	A	A	B ¹	C ¹	B ¹	A ¹	A	C	A	B	B	B	A
Butyl Amine	A	A	N/A	C ¹	C	N/A	B	B	D	N/A	C ¹	N/A	D	D	D	A ²	N/A	D	B ¹	A	D	A ¹	B	B	D	D
Butyl Ether	B	A ¹	N/A	D	B	D	D	B	N/A	N/A	N/A	N/A	D	D	D	A ²	N/A	N/A	D	A	A	A ¹	D	N/A	A	D
Butyric Acid	B	B ²	D	A	D	D	B	A	B	D	D	D	D	D	D	C ¹	D	D	B ¹	A	B	A	D	A	D	B
Calcium Carbonate (Chalk) CaCO ₃ , 25%	A	B	N/A	A	A	A	A	B	N/A	N/A	B ¹	N/A	A	A	A	A	N/A	C ²	A	A	A	A	A	B	A	A
Calcium Chloride, 30% aqueous	C	B	B	D	A	A	A	A	A	A	B	A	A	A	A	A ¹	A	A	A	A	C	A	A	A	A	A
Calcium Hydroxide (Lye)	B	B	A ²	D	A	A	A	A	B	A	A ²	N/A	A	A	A	A ²	B	D	A ²	A	B	A ²	A	A	B	A
Calcium Hypochlorite, 15%	C	B	N/A	D	C	B	B	B	C	A	A	A	D	D	A	D	B ¹	D	A	A	B	A	B	A	A	A
Calcium Nitrate	C	B ²	A	D	A	A	A	B	N/A	B	A ¹	N/A	A	A	A	A	N/A	A ²	A ²	A	A	A ²	B	B	A	A
Calcium Sulfate, 1% aqueous	B	B	C	D	A	A	A	B	N/A	N/A	B ¹	N/A	B	B	A	D	N/A	A ²	A	A	B	A	N/A	A	A	A
Carbolic Acid (Phenol)	B	B	D	D	D	B	B	A	D	N/A	D	N/A	D	D	D	D	D	B	A	D	A ¹	D	A	B	A	A
Carbon Dioxide (dry)	A	A ¹	B	A	A	A	B	A	A	N/A	A ¹	A	B	B	A	A ¹	A	A	A ²	A	A	A	B	A	A	B
Carbon Dioxide (wet)	A	A	B	A	A	A	B	A	A	N/A	A	A	B	B	A	A	A	A	A	A	A	A	B	A	A	B
Carbon Monoxide	A	A	A ²	A	A	A	A	B	A	N/A	A ²	N/A	D	B	A	A	A	A	A	A	A	B	A	N/A	A	A
Carbonated Water	A	A	N/A	A	A	A	N/A	N/A	N/A	N/A	A	N/A	N/A	A	A	A	N/A	N/A	B	N/A	A	A	N/A	N/A	N/A	A
Carbonic Acid	A	A	N/A	B ¹	D	A	B	A	D	B	B ²	N/A	C	D	A	A ¹	N/A	A ¹	A	A	A	A	A	B	A	A
Castor Oil	A	A	A	A	B	C	B	A	D	C	A	A	A	B	A	D	A	A	A	A ²	A	A	A	A	A	A
Chlorine Dioxide (ClO ₂ + H ₂ O), 0.5%	C	C	C	D	C	A	C	A	A	B	B ¹	C	C	C	C ¹	C ¹	C ¹	B ¹	C	A	A ²	A	C	A	C	A
Chloroacetic Acid	B	A ¹	N/A	D	D	D	B	A	D	A	D	C ¹	D	D	N/A	D	D	D	C ¹	A	B	A ¹	D	A	A	D

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. **N/A** = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hytre® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Chlorobenzene (mono)	A	B	D	D	D	D	D	A	D	D	C ¹	D	D	D	D	D	D	D	C ¹	B	D	A ¹	D	B	A	A
Chlorobromomethane	B	B	N/A	B	D	N/A	B	N/A	D	N/A	A	N/A	D	D	C	C	N/A	N/A	A	A	D	N/A	D	N/A	N/A	A
Chloroform	A	A	D	A	D	D	D	A	D	D	C	D	D	D	D	A	D	D	C	A	D	A	D	A	B	A
Chlorosulfonic Acid	D	B ²	N/A	D	D	D	D	A	D	D	D	D	D	D	D	N/A	C ¹	D	A	D	D	D	D	A	C	D
Chromic Acid, 5%	B	A	B	D	D	A	A	B	D	A	D	C	B	D	A	D	A	B	D	A	A	A	C	A	B	A
Chromic Acid, 10%	B	B	B	D	D	A	C	A	D	A	D	C	D	D	A	D	A	B	D	A	A	A	C	B	C	B
Chromic Acid, 30%	B	B	B	D	D	A	B	D	D	A	D	C	D	D	D	D	C ¹	C	D	A	A	A	C	A	B	A
Chromic Acid, 50%	C	B	D	D	D	D	B	B	D	A	D	C	D	D	D	D	C ¹	D	D	A	D	A	C	A	B	A
Citric Acid	B	A ²	D	B ¹	A	B	A	A	A	A	D	A	A	A	A	A ¹	A	A ¹	A	A	B	A	A	A	N/A	A
Citric Oils (Citric acid ethers)	A	A	D	B	A	N/A	B	N/A	N/A	B	C ¹	N/A	N/A	D	A	A	A	C	A	A	C ¹	A	N/A	N/A	D	A
Clorox® Bleach (Sodium Hypochlorite), 15%	A	A	B	D	D	A	B	A	C	A ¹	A ¹	A	D	B	A	A	A	A	D	A	A	A	D	A	B	A
Copper Chloride	D	D	A	A	A	A	A	N/A	A	N/A	N/A	N/A	C	A	A	D	N/A	N/A	A	A	A	A	A	D	A	A
Copper Sulfate, 5%	B	B	A ²	D	A	A	A	A	A	A	A ²	A	C	A	A	D	A	A ¹	A	A	A	A	A	A	N/A	A
Cyclohexane	A	A	D	A ¹	B	D	D	B	A	D	B ¹	A ¹	D	D	D	A	D	B	D	A	D	A	D	A	D	A
Cyclohexanone	A	A ²	D	A	D	D	B	A	D	B	D	D	D	D	D	A	D	D	D	A	D	D	D	N/A	D	D
Cidex® OPA (0.55% ortho-phthalaldehyde solution)	A	A	A	A	A	A	A	A	N/A	A	N/A	N/A	A	A	N/A	A	A	A	A	A	B	N/A	B	A	N/A	A
Cidex Plus® (3.4% glutaraldehyde solution)	A	A	A	D	D	N/A	D	A	N/A	A	A ¹	D	D	D	N/A	D	B ¹	A	A	A	A	A	A	D	N/A	D
Detergents, Household (solution)	A	A ¹	B	A ¹	A	A	A	B	B	A	D	A ¹	B	B	A	A ¹	N/A	A ¹	A	A	A	A	A	A	A	A
Diacetone Alcohol	B	B	N/A	A	D	D	A	A	C	A	A	D	D	D	A	A ¹	D	D	A ¹	A	D	D	D	A	B ¹	D
Dichlorobenzene	N/A	B	D	N/A	D	D	D	A	D	N/A	N/A	D	D	D	N/A	D	D	D	C	A	D	A	D	N/A	N/A	C
Dichloroethane	B	B	D	A ¹	D	D	N/A	A	N/A	C	C ¹	N/A	D	D	A	A ¹	N/A	D	D	A	D	A	N/A	B	D	C
Diethyl Ether (Ether, Ethyl Ether)	B	B ²	D	N/A	D	D	D	B	C	D	N/A	D	D	D	N/A	A ¹	C ¹	D	A ¹	A	D	A ¹	D	A	N/A	D
Dimethyl Acetamide	B	A	D	A	D	A ¹	A	A	N/A	A ²	C ¹	A	D	B	N/A	A	N/A	D	A ¹	A	D	D	B	N/A	D	D
Diethylamine	A	A	D	B	C	D	B	A	N/A	D	D	N/A	A	A	N/A	A	N/A	D	A ¹	D	D	D	B	A	C	A
Dihydrogen Dioxide, 10% (H ₂ O ₂)	B	B	A	D	D	A	A	A	D	A	A	N/A	B	D	A	C	B ¹	A	A	A	A	A	A	A	B	A

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. **N/A** = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hyrel® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Dimethyl sulfoxide (DMSO)	A	A	N/A	D	D	D	A ¹	A	N/A	A	A	N/A	D	A	N/A	A	N/A	D	A	A	D	D	C ¹	A	A	C
Dioxidane, 10% (H ₂ O ₂)	B	B	A	D	D	A	A	A	D	A	A	N/A	B	D	A	C	B ¹	A	A	A	A	A	A	A	B	A
Ethane	A	A ¹	N/A	A ¹	A	A	D	A	N/A	N/A	N/A	N/A	D	B	N/A	D	N/A	N/A	D	A	A	A	D	N/A	A	A
Ethanol (Ethyl Alcohol), 40%	A	A	B	A ¹	C	B	A	A	D	A	B	A	A	A	A	A ¹	A	C	A	A	C	A	B	A	C	A
Ethanol (Ethyl Alcohol), 70%	A	A	B ¹	B ¹	C	B ¹	A	A	A	A	B	A ¹	A	A ¹	A ¹	A ¹	D	B ¹	A	A	B	B	B	A	A	B ¹
Ethanolamine	A	A	N/A	D	B	N/A	B	B	N/A	N/A	N/A	N/A	B	B	A	A	N/A	N/A	D	A	D	C ¹	B	B	N/A	D
Ether (Diethyl Ether, Ethyl Ether)	A	A	D	A	D	D	C	B	N/A	D	D	D	D	D	D	A	C ¹	D	D	A	D	B ¹	D	A	C	C
Ethyl Acetate	B	B	D	A	D	D	B	A	B	A	A	D	C	D	A	A ²	D	D	A ¹	A	D	D	B	A	D	D
Ethyl Benzoate	A	A	D	N/A	D	D	A	A	C	B	C ²	D	D	D	A	D	D	D	B ¹	A	D	D	D	N/A	D	A
Ethyl Chloride	A	A	D	A ¹	A	D	A	B	C	C	C ¹	D	B	C	D	A ¹	D	D	D	A	D	A	D	A	D	A
Ethyl Ether (Diethyl Ether, Ether)	B	B	D	A ¹	D	D	D	B	N/A	D	D	D	D	D	D	A ¹	C ¹	N/A	D	A	D	A ²	D	A	N/A	D
Ethylene Glycol	B	B	A	B	A	A	A	B	A	A	A ²	N/A	A	A	A	A	B ¹	B ¹	A	A	A	A	A	A	B	A
Ethylene Oxide	B	B	D	D	D	C	C	A	A	B	A	N/A	D	D	A	A ¹	A ¹	C ¹	D	A	D	A	D	N/A	N/A	D
Fatty Acids	B	A	A	A	B	A	D	A	B	A	D	A	C	C	A	A ¹	A	B ¹	A	A	A	A	C	B	B	A
Ferric Chloride, 10% aqueous solution	D	D	A	D	A	A	A	B	C	D	A ¹	N/A	A	B	A	A	A	A ²	A	A	A	A	B	A	B	A
Ferric Nitrate	B	B	A	D	A	A	A	B	D	N/A	A ²	N/A	A	A	A	A ¹	N/A	A ¹	A	A	A	A	C	A	N/A	A
Ferric Sulfate	B	A	A	D	A	A	A	A	A	N/A	A ²	N/A	A	A	A	A ¹	N/A	A ¹	A	A	A	A	B	A	B	A
Ferrous Sulfate	B	B	A	D	A	A	A	B	A	N/A	A ²	N/A	B	A	A	D	N/A	A ¹	A	A	A	A	N/A	A	B	B
Formaldehyde (Formalin), 4%	A ²	A	A	A	B	A	A	A	C	A ¹	A ¹	A ¹	B ¹	C	A	A	A ¹	A ¹	A	A	A	A ²	B ¹	B	C	A
Formaldehyde (Formalin), 30%	A ¹	A	A ²	A ²	B	A ²	A	B	B	A	D	A ¹	B	B ¹	A	A	A ¹	A ¹	A	A	A	A	N/A	B	D	A
Formaldehyde (Formalin), 40%	A ¹	A	A ²	A ²	B	A ²	A	B	C	A	D	C	B	B	A	A	A ¹	A ¹	A	A	A	A	N/A	B	D	D
Formic Acid	B	A ¹	D	A ²	C	A	A	A	B	A	D	C	C	A	A	D	B	A ¹	A ¹	A	A	A	A	B	C	C
Gallic Acid	A	B	N/A	N/A	B	C	B	B	D	A	A	A	A	B	A	A	N/A	A ¹	A	B	B	A ¹	D	B	A	A
Glucose, 30%	A	A	B	A	A	A	A	A	A	A	A ²	A	A	A	A	A	N/A	A ¹	A	A	A	A	A	A	A	A
Glutaraldehyde Solution, 2 to 3.4% CH ₂ (CH ₂ CHO) ₂	A	A	A	D	A	A	A	A	D	A	A ¹	A ¹	A ¹	A ¹	N/A	A ¹	B ¹	A ¹	A	A	A ¹	A	N/A	A	A ¹	

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. **N/A** = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hytre® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Glycerin	A	A	C	A	A	A	A	A	A	A	A ¹	A	A	A	A	A ¹	A	A ²	A	A	A	A	A	A	A	A
Glycolic Acid	A	A	B	A	A	A	A	A	N/A	N/A	A	N/A	D	A	N/A	N/A	N/A	N/A	A	A	B	B	A	A	A	A
Heptane	A	A	D	A	A	A	D	A	B	B	B ¹	C	D	B	B	A	A	B	C ²	A	C	A	D	A	B	A
Hexane	A	A	D	A	A	B	D	A	A	C	D	C	D	B	B	B	A	D	B ¹	A	B	A	D	A	D	A
Hydrazine (Diamine) H ₂ NNH ₂	A	A	N/A	B	B	D	A	N/A	C	D	N/A	N/A	C	B	N/A	N/A	N/A	D	C	A	N/A	A	B	N/A	N/A	A
Hydrobromic Acid, 20%	D	D	N/A	C	D	A	A	A	N/A	D	B	N/A	A	D	B	D	D	N/A	A	N/A	B	A	D	A	B	A
Hydrochloric Acid, 20%	D	D	A	C	D	A	A	A	B	A	A ²	A ¹	A	C	A	D	A	B ¹	B ²	A	A	A	D	D	A	A
Hydrochloric Acid, 37%	D	D	A	C	B	A	C	B	C	A	B	D	A	B	A	D	C	D	C	A	B	A	B	D	A	A
Hydrochloric Acid, Dry Gas	D	D	N/A	N/A	N/A	A	N/A	A	N/A	D	A	D	N/A	N/A	A	A	N/A	N/A	B	A	A	A	N/A	C	N/A	N/A
Hydrofluoric Acid, 20%	D	D	C	D	D	C	D	B	D	A	A ¹	C	B	B	C	C	D	D	A ²	A	B	A	D	D	C	A
Hydrofluosilicic Acid, 20%	C	B ¹	D	B	A	A	A	B	N/A	B	B ²	N/A	A	B	B	D	N/A	N/A	A	A	A	A	D	D	A	A
Hydrogen Gas	A	A	A ²	N/A	A	A	A	A	A	A	A ²	N/A	B	A	A	A ²	N/A	A ²	A	A	A	A	C	A	A	A
Hydrogen Peroxide, 3% (H ₂ O ₂)	B	B	A	D	D	A	A	A	D	A	A	A	B	D	A	C	A	A	A	A	A	A	A	A	B	A
Hydrogen Peroxide, 10% (H ₂ O ₂)	B	B	A	D	D	A	A	A	D	A	A	B	B	D	A	C	A	A	A	A	A	A	A	A	B	A
Hydrogen Peroxide, 30% (H ₂ O ₂)	B	B	N/A	D	D	A	B	A	D	A	C ²	C	C	D	A	D	A	A ²	B ¹	A	A	A	B	B	B	A
Hydrogen Peroxide, 50% (H ₂ O ₂)	B	A ²	N/A	D	D	A	B	A	D	A	C ²	D	C	D	N/A	D	D	A ²	B ¹	A	A	A ¹	B	A	B	A
Hydrogen Sulfide (aqua)	C	A	B	C	D	A	B	A	A	A	A	A ¹	C	A	A	C ¹	A	A	A ¹	A	B	A	C	B	A	D
Hydrogen Sulfide (dry)	C	A	N/A	N/A	D	A	B	A	A	A	A	A ¹	C	A	N/A	C	N/A	N/A	A	A	A	A	C	A	D	D
Hypochlorites (bleach), 15%	A	A	B	D	D	C	A	B	A	C	N/A	N/A	A	D	B	A	A	A	D	A	A	A	N/A	N/A	B	A
IPA (Isopropyl Alcohol, Isopropanol), 70%	B	B	D	A	B	C	A	A	A	A	A ²	A ¹	A	B	A	D	C ¹	A ²	A ²	A	A	A	A	B	A	A
Isopropanol, anhydrous (pure)	B	B	A ¹	A ¹	A ¹	A	A	A	C	A	A	C ¹	A	B	A	B	D	A	A	A	B	A	A	B	D	A
Ketones	A	A	A	D	D	N/A	D	A	D	D	C ¹	D	A	D	D	A ²	D	D	C	A	D	C ¹	N/A	A	D	D
Lactic Acid	B	B ¹	D	B	A	A	A	B	D	A	A ¹	A	A	A	A	B	A	B	B	A	B	B ¹	A	A	A	A
Ligroin	A ²	A ²	N/A	B	A	N/A	D	N/A	N/A	N/A	A	A	D	B	N/A	D	N/A	A ¹	A ²	A	N/A	A	D	N/A	A	A
Linoleic Acid	B	A	A	B	B	A	D	A	N/A	N/A	A	N/A	D	D	N/A	N/A	N/A	N/A	B ¹	A	A	A ²	B	N/A	A	B

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. **N/A** = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hytre® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Lipids	A ²	A	C	C	B	D	D	A	C	A ¹	A	A	D	B	A	A	A	A ¹	C	A	C	A ¹	C	A	A	A
Lithium Hydroxide	C	C	N/A	N/A	C	N/A	A	B	N/A	D	N/A	N/A	N/A	D	N/A	N/A	N/A	D	A	A	N/A	N/A	N/A	N/A	N/A	N/A
Magnesium Bisulfate	A	A ¹	N/A	N/A	B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	B	B	N/A	A ¹	N/A	A ¹	A ²	A	A	N/A	N/A	N/A	A	N/A
Magnesium Chloride (solution)	D	D	B	B ¹	A	A	A	A	C	A	A ¹	A	A	A	A	A ¹	A	A ²	A ²	A	B	A	A	A	A	A
Magnesium Hydroxide	B	A ¹	B	A	A	A	A	A	C	B	A ²	N/A	A	A	A	B ¹	N/A	A ¹	A	A	A	A	A	A	A	C
Malic Acid (Apple Acid) C ₄ H ₆ O ₅ , 10%	A	A ²	N/A	A	A	A ¹	D	B	N/A	N/A	B ²	A	B	D	N/A	A	N/A	D	A ¹	A	A	A	B	A	A	A
Mercury	A	A	B	A	A	A	A	A	B	A	A	A ¹	A	A	A	A	A	D	B	A	A	A	N/A	A	D	A
Methane	A	A	A ¹	A	A	N/A	D	A	B	N/A	N/A	N/A	D	B	N/A	A	A	A	A	A	B	A	D	N/A	N/A	A
Methanol (Methyl Alcohol)	A	A	D	A	A	A	A	A	B	A	A ¹	C	A	A	A	B ¹	C ¹	B ¹	A ²	A	A	A	A	B	A	C
Methyl Acetate	A	B	D	B	D	N/A	B	A	C	C	B	D	D	B	N/A	A	N/A	D	D	A	D	B	D	N/A	A	D
Methyl Acetone	A	A	N/A	D	D	N/A	A	A	N/A	N/A	N/A	N/A	A	D	N/A	A	N/A	N/A	D	A	D	D	N/A	N/A	A	D
Methyl Alcohol, 10%	A	A	D	A	A	A	A	A	B	A	A ¹	C	A	A	A	B ¹	C ¹	B ¹	A ²	A	A	A	A	B	A	C
Methyl Butyl Ketone	A	A	N/A	D	D	N/A	A	N/A	N/A	N/A	N/A	N/A	D	D	N/A	D	N/A	D	D	A	A	D	D	N/A	N/A	D
Methyl Cellosolve	B	B	A	D	A	D	B	N/A	N/A	N/A	N/A	N/A	D	B	N/A	C	N/A	D	B	A	D	A	D	N/A	C	D
Methyl Chloride	A	A	D	B	D	D	D	B	D	N/A	C ¹	D	D	D	D	B ¹	D	D	D	A	D	A	D	A	D	A
Methyl Ethyl Ketone (MEK, Butanone)	A	A	D	C	D	D	A	A	B	D	B	D	D	D	D	A ¹	D	D	B ²	A	D	D	D	A	D	D
Methyl Isobutyl Ketone	B	B	D	D	D	D	B	A	B	D	C	D	D	D	D	B ²	D	D	A	A	D	D	D	A	N/A	D
Methyl Isopropyl Ketone	A	A	N/A	N/A	D	N/A	C	A	D	D	D	D	D	D	D	A	N/A	D	N/A	A	D	N/A	C	N/A	N/A	D
Methylamine	A	A	D	D	B	N/A	A	B	N/A	N/A	A ¹	N/A	B	A	N/A	N/A	D	D	A ²	A	D	C	N/A	N/A	D	D
Methylene Chloride	B	B	D	B	D	D	C	B	D	D	D	D	B	N/A	D	C ¹	D	D	B ¹	A	D	B ¹	N/A	B	D	B
Monochloroacetic Acid	A	A ¹	N/A	D	D	N/A	C	A	D	D	N/A	N/A	N/A	A	N/A	D	N/A	D	N/A	A	N/A	B ¹	N/A	A	N/A	C
Monoethanol Amine	A	A	N/A	D	D	N/A	B	N/A	D	N/A	C	N/A	B	D	A	A	N/A	N/A	B	A	D	C	B	B	N/A	D
Morpholine	N/A	A ¹	C	N/A	D	N/A	D	A	N/A	N/A	N/A	N/A	A	D	D	A ²	N/A	D	B ²	A	N/A	B ¹	N/A	N/A	N/A	N/A
Nitric Acid, 5-10%	A	A	B	D	D	A	A	A	C	A	B	C	D	B	A	D	A	A	A	A	A	A	A ¹	C	A	A
Nitric Acid, 20%	A	A	B	D	D	A	A	A	D	B	C	C	D	D	B	D	A ¹	B ¹	A ²	A	A	A	D	A	D	A

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. **N/A** = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hyrel® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)	
Nitrobenzene	B	B	D	C	D	D	B	D	D	D	C ¹	D	D	D	D	B ¹	D	D	B	A	D	A ¹	D	A	D	B	
Nitromethane	A	A ¹	D	A	D	N/A	B	A	C	D	A	N/A	B	D	D	B ¹	D	D	B ²	A	B	A ²	D	N/A	B	D	
Nitrous Oxide	B	B	N/A	N/A	A	N/A	A	B	N/A	N/A	C	N/A	A	A	N/A	C	N/A	D	D	A	A	D	N/A	N/A	A	B	
Oleic Acid	A	A	D	A	B	A	B	A	A	C	C ²	A ¹	D	C	A	A	A	A	B ¹	A	C	A	D	B	C	B	
Ortho-Phthalaldehyde (OPA), 0.55%	A	A	A	A	A	N/A	A	N/A	N/A	A	A	N/A	A	A	N/A	A	A	A	A	A	A	N/A	A	A	N/A	A	
Oxalic Acid (cold solution)	B	A	A	B	D	A	A	B	D	A	A ²	A	B	D	A	B ²	A	N/A	A ²	A	B	B	B	A	B	A	
Ozone	B	A	B	C	D	A	A	A	C	C ²	C ¹	A	D	C	N/A	D	A	A ¹	B	A	B	A	A	A	B	A	
PAA (Peracetic Acid, Peroxyacetic Acid), 3%	A	A	A	D	C	A	B	A	N/A	A	A	N/A	D	D	N/A	D	N/A	A	A	A	A	A	B	A	D	A	
PAA (Peracetic Acid, Peroxyacetic Acid), 10%	N/A	A	N/A	D	D	A	D	N/A	N/A	B	D	N/A	D	D	N/A	D	N/A	C	A	A	D	A	C	N/A	D	A	
Palmitic Acid	B	A ¹	A	A	A	A	B	B	A	N/A	N/A	A	B	D	N/A	A	N/A	A ¹	B ¹	A	B	A ²	D	N/A	B	A	
Paraffin	A	A	A	A	B	A	D	B	N/A	B	B	A	B	B	A	A ¹	A	A ¹	A ¹	A	B	A	N/A	A	B	B	
Peracetic Acid (PAA), 3%	A	A	A	D	C	A	B	A	N/A	A	A	N/A	D	D	N/A	D	N/A	A	A	A	A	A	B	A	D	A	
Peracetic Acid (PAA), 10%	N/A	A	N/A	D	D	A	D	A	N/A	B	D	N/A	D	D	N/A	D	N/A	C	A	A	D	A	C	N/A	D	A	
Pentane (Amyl Hydride) C ₅ H ₁₂	C	C	A	B	A	N/A	D	A	B	N/A	D	N/A	D	B	N/A	A ¹	N/A	A	D	A	A	A	D	N/A	A	A	
Perchloric Acid	C	C	N/A	C	D	A	B	B	D	D	B	N/A	D	A	N/A	D	D	D	C	A	C	A	D	D	D	A	
Peroxyacetic Acid (PAA), 3%	A	A	A	D	C	A	B	A	N/A	A	A	N/A	D	D	N/A	D	N/A	A	A	A	A	A	B	A	D	A	
Peroxyacetic Acid (PAA), 10%	N/A	A	N/A	D	D	A	D	A	N/A	B	D	N/A	D	D	N/A	D	N/A	C	A	A	D	A	C	N/A	D	A	
Phenol, 10%	B	B	D	B	D	A	B	B	D	D	B	D	A	D	D	D	D	B ¹	B ¹	A	C	A	D	B	C	A	
Phenol (Carbolic Acid)	B	B	D	D	D	B	B	A	D	D	D	D	D	D	D	D	D	D	B	A	D	A ¹	D	A	B	A	
Phenol Disinfectants	A	A	D	D	D	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	A	D	D	
Phosphoric Acid Anhydride	A	A	A	D	D	N/A	N/A	N/A	N/A	A	N/A	N/A	N/A	A	N/A	N/A	N/A	D	A	A	N/A	D	N/A	D	N/A	D	D
Polyethylene Glycol (PEG)	B	B	N/A	A ¹	A ¹	B	A	A	N/A	A ¹	A	N/A	A	A ¹	N/A	C	N/A	A ¹	A	A	A	A ¹	A	A	A	A	
Polysorbate 80 (Tween 80)	A ¹	A ¹	A ¹	A ²	A ¹	N/A	A ¹	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A ²	A	A	D	A	A ¹	N/A	N/A	A ¹	
Potassium Bicarbonate	B	B	A	C	A	A	A	B	N/A	B	A	N/A	A	A	A	A ¹	N/A	N/A	A	A	A	B	A	A	A	A	
Potassium Bromide	B	B	A	A	A	A	A	B	N/A	B	A	A	A	A	A	A ¹	N/A	A	A	A	A	A	A	A	B	A	

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. N/A = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hytre® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Potassium Chloride	B	A ¹	A	A	A	A	A	A	B	A	A ¹	A	A	A	A	A ¹	A	A	A	A	A	A	A	A	A	A
Potassium Dichromate, 10%	B	B ¹	B	A	A	A	A	B	C	B	A	A ¹	B	A	A	B ¹	A	A ¹	A	A	A	A	A	A	C	A
Potassium Ferrocyanide	B	B ¹	A ²	B ¹	D	B	A	B	N/A	N/A	A ²	A	A	A	A	B ¹	N/A	D	A ²	A	A	A ²	N/A	A	B	A
Potassium Hydroxide (Caustic Potash)	B	A ¹	A	A	B	A	A	B	D	A	A	D	B	B	A	C ¹	A ¹	D	A	A	A	A	C	D	B	B
Potassium Iodide	A	A ¹	B	N/A	A	A	A	A	N/A	B	B ¹	A	B	A	N/A	A ¹	N/A	A ¹	A ²	A	A	A ²	N/A	A	B	A
Potassium Nitrate	B	B	B	A	A	A	A	B	B	B	A	A	A	A	A	B ¹	N/A	A ¹	A	A	A	A	A	A	A	A
Potassium Nitrite	B	B	B	A	A	A	A	B	B	N/A	A	N/A	A	A	A	B	N/A	A	A	A	A	A	A	A	A	A
Potassium Permanganate	B	B	B	A	C	A	A	A	D	A	A	A ¹	A	A	A	D	C ¹	A ²	A ¹	A	A	A	N/A	A	B	A
Propane (liquefied)	A	A	N/A	A	A	A	D	A	A	D	C ¹	A ¹	D	C	A	A ¹	A	C ¹	A	A	A	A	D	N/A	N/A	A
Propylene (C ₃ H ₆)	B	A	B	N/A	D	N/A	D	A	N/A	N/A	N/A	N/A	D	D	N/A	N/A	A	A ¹	A	A	B	A	D	N/A	B	A
Propylene Glycol	B	B	B	B	A	C	A	B	N/A	A	B ²	N/A	A	C	N/A	A	A	B ¹	A ²	A	C	A ¹	A	A	N/A	A
Pyridine (C ₅ H ₅ N)	A	A	A	B	D	D	B	B	C	D	B ¹	D	D	D	B	C ¹	D	D	A ²	A	D	D	D	B	D	D
Quats (Quaternary Ammonium Compounds), up to 5%	B	B	A	N/A	A	A ¹	A	N/A	N/A	A	A	N/A	C	A	N/A	A	N/A	A	A	A	A	A ¹	C	N/A	A	A
Renalin®, 4%	A	A	A	A	C	A	A	A	N/A	A	A	N/A	C	C	N/A	C	N/A	A	A	A	A	A	B	A	D	A
Resorcinol (C ₆ H ₆ O ₂)	N/A	N/A	A	N/A	N/A	N/A	B	N/A	D	N/A	B ²	C	N/A	D	N/A	D	D	B ¹	A ²	A	C	N/A	N/A	N/A	C	A
Rosins	A	A ¹	N/A	B	A	C	A	A	N/A	B	B ¹	N/A	N/A	A	N/A	A ¹	N/A	N/A	A ²	A	C	N/A	A	N/A	N/A	A
Salicylic Acid	B	B ²	A	D	B	N/A	A	A	N/A	N/A	B ²	A	A	D	N/A	A ¹	C	A ¹	A ¹	A	B	A	N/A	A	B	A
Salt Brine (NaCl saturated)	B	A	A ²	N/A	A	A	A	A	A	A	A	N/A	A	A	A	A	N/A	A	A	A	A	A	A	A	N/A	A
Silicone	A	A	D	A	A	A	A	A	A	A	N/A	A	C	A	A	A ¹	A	A ²	A	A	A	A	C	N/A	N/A	A
Silver Bromide	D	D	N/A	C	N/A	N/A	N/A	B	N/A	N/A	A	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A
Silver Nitrate	B	B	B	A	B	A	A	A	D	A	A	A	A	A	A	A ¹	A	A ²	A ¹	A	A	A	A	A	B	A
Soap Solutions	A	A ¹	A	A	A	A	A	A	A	B	D	N/A	B	B	A	A ¹	N/A	A ¹	A	A	A	A ¹	A	A	B	A
Sodium Acetate	B	B ¹	B	B	B	A	A	A	N/A	A	A	A	A	B	A	B ¹	A	A ¹	A	A	B	A	D	A	N/A	D
Sodium Benzoate	N/A	N/A	A	N/A	B	A	A	A	N/A	B	A ²	A	A	A	N/A	B ¹	N/A	A ²	A ²	A	B	A ²	N/A	A	B	A
Sodium Bicarbonate (Baking Soda)	A	A ¹	A	A	A	A	A	B	B	A	A ²	A	A	A	A	A	N/A	A ²	A	A	A	A	A	A	B	A

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration. N/A = Information Not Available.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hytre® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Sodium Bisulfate	D	C	A	B	B	A ²	A	B	C	B	A ²	N/A	A	A	A ¹	A ¹	N/A	A ¹	A	A	A ²	A	A	A	B	A
Sodium Bisulfite	B	B ¹	A	C	A	A ²	A	B	B	B	A ²	A	A	A	A ¹	C ¹	N/A	A ¹	A	A	A ²	A	A	A	B	A
Sodium Bromide	C	C	B	A	N/A	A ²	A	B	N/A	N/A	A ²	A	A	A	A ²	B ¹	N/A	A ¹	A	A	B ²	A ²	N/A	A ¹	B ²	A
Sodium Carbonate	A	A	B	A ¹	A	A ²	A	A	B	A	B ²	A	A	A	A	B ¹	B ¹	A ²	A	A	A ²	A	A	A ¹	B	A
Sodium Chlorate	A	B ¹	A	A	B	A ¹	A	B	N/A	N/A	B ²	N/A	A	A	A ¹	D	N/A	A ¹	A	A	A ¹	A	C	A	B	A
Sodium Chloride	B	B	A	A ¹	A	A ²	A	A	A	A	A ²	A	A	A	A	A ¹	A	A ²	A	A	A ²	A	A	A	B	A
Sodium Chlorite (NaClO ₂)	D	A	N/A	N/A	C	A ²	A ¹	A	A ¹	A	A	N/A	N/A	B	N/A	D	A ¹	N/A	A ¹	A	B	A	C	A	A	A ¹
Sodium Hydrosulfite	N/A	N/A	N/A	N/A	C	C	B	A	N/A	N/A	N/A		C	B	N/A	A	N/A	N/A	N/A	A	C	N/A	C	N/A	A	B
Sodium Hydroxide (50%)	C	B ¹	A	D	D	A	B	A	D	C	D	A	A	B	A	C	A	D	A	A	A	A	A	D	A	D
Sodium Hypochlorite (<20%)	C	C	B	D	B	A	B	A	A	A	A	A	C	C	A	D	A	C	A	A	A	A	B	C	C	A
Sodium Hypochlorite (100%)	D	D	D	D	D	C	B	B	D	C	B ²	N/A	C	C	A	D	N/A	D	B	A	B	A	B	C	N/A	A
Sodium Nitrate	B	B ¹	A ²	A	A	A	A	B	B	B	A ²	A	B	B	A	A ¹	N/A	D	A	A	A	A	D	A	B	A
Sodium Perborate	B	B	N/A	B	B	A	A	B	B	N/A	A ¹	A	B	B	A	B ¹	N/A	A ¹	A	A	A	N/A	B	N/A	N/A	A
Sodium Peroxide	A	A	A ²	D	B	A	A	B	B	B	A	N/A	B	B	N/A	A	N/A	A	B	A	B	A	D	N/A	N/A	A
Sodium Polyphosphate	B	B	N/A	B	A	A	A	A	N/A	B	A	N/A	C	B	A	A ¹	N/A	N/A	A	A	A	A	D	A	N/A	A
Sodium Silicate (Water Glass)	A	B	A ²	C	A	A	A	B	A	A	A ²	N/A	A	A	A	A ¹	N/A	A ¹	A	A	A	A	A	A	B	A
Sodium Sulfate (Salt Cake, Thenardite)	B	B ¹	A ²	B	A	A	A	B	A	N/A	A ²	A	B	A	A	A	N/A	A ²	A	A	A	A	A	A	N/A	A
Sodium Sulfide	B	D	A ²	B	A	A	A	B	A	B	A	A	B	A	A	A	N/A	D	A	A	A	A	A	A	B	A
Sodium Sulfite	B	A	A ²	N/A	A	A	A	B	A	B	B ¹	A	B	A	A	D	N/A	A ¹	A ²	A	A	A	A	A	A	A
Sodium Thiosulfate (hypo)	A	B	A ²	C ¹	B	A	A	A	N/A	N/A	A ¹	A	B	A	A	B	A	D	A ²	A	A	A	A	A	N/A	A
Starch	A	A	A ²	A	A	A	A	N/A	B	N/A	B	N/A	A	A	A	A	N/A	A	A	A	A	A	N/A	N/A	N/A	A
Stearic Acid	B	A	A ²	A	B	B	B	B	C	A	B ¹	A	C	B	A	A ²	A	A ¹	A ²	A	B	A	B	A	B	A
Styrene (Vinylbenzene) C ₆ H ₅ CHCH ₂	A	A	N/A	A	D	D	D	D	D	N/A	N/A	N/A	D	D	A	A ¹	N/A	D	N/A	A	D	A ¹	D	N/A	N/A	B
Succinaldehyde (Gigasept® FF)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D
Sulfate (Liquors)	C	B	N/A	D	A	B	A	B	N/A	A	A ²	N/A	B	B	N/A	B ¹	N/A	N/A	A	A	B	A	B	N/A	N/A	A

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.

IS MED Specialties Chemical Compatibility Chart

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration.

C = Fair -- Moderate Effect, not recommended swelling may occur. Explanation of Footnotes

D = Severe Effect, not recommended for ANY use.

N/A = Information Not Available.

1. Satisfactory to 72°F (22° C)

2. Satisfactory to 120°F (48° C)



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal (Delrin), POM	Buna N (Nitrile)	CPV C	EPDM	Hastelloy® - C	Hytre® (TPE)	HDPE	LDPE	MABS	Natural Rubber	Neoprene	Noryl™ (modified PPE)	Nylon (polyamides)	PMMA (Acrylic)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar)	Silicone	Titanium	Tygon (resin specific)	Viton® (FKM)
Sulfur Dioxide	D	A ¹	D	B	D	A	A	C	C	D	B ¹	N/A	N/A	B	A	C ¹	D	B ¹	A ¹	A	A	A	B	A	C	A
Sulfur Dioxide (dry)	D	A	A ¹	B	D	A	A	B	C	A	A	N/A	C	D	A	B	D	A ¹	A	A	A	A	B	A	C	A
Sulfur Dioxide (wet)	A	C	A	N/A	D	A	C	N/A	X	N/A	A	N/A	C	D	D	D	D	A ¹	C	A	A	A ¹	B	A	A	A
Sulfur Trioxide (dry)	D	A	N/A	D	D	A	C	B	X	N/A	C	N/A	C	D	D	A	D	N/A	D	A	A	C	B	D	B	A
Sulfuric Acid (<10%)	D	B	B	D	A	A	A	B	A	A	A ¹	A	A	B	A	C ¹	A	A ¹	A ²	A	A	A	C	D	B	A
Tannic Acid	B	A	N/A	B	A	A	A	B	A	A	B ²	A	A	A	A	C ¹	N/A	C	A	A	A	B	B	A	B	A
Tetrachloroethane	B	A	N/A	A	D	C	D	A	N/A	N/A	N/A	D	D	D	D	C ¹	N/A	D	C	A	C	A	D	A	N/A	A
Toluene (Toluol)	A	A	D	C ¹	D	D	D	A	B	D	C ¹	D	D	D	D	A ¹	D	D	C ¹	A	D	A ¹	D	A	D	C
Trichloroacetic Acid	D	C	N/A	N/A	C	N/A	B	B	D	C	A	N/A	C	D	N/A	C ¹	D	D	A	A	B	B	D	D	C	C
Trichloroethylene	B	B	D	D	D	D	D	A	C	D	D	D	D	D	D	C ¹	D	D	C ¹	A	D	B	D	A	N/A	A
Triethylamine (Triethyl Amine)	A	A	N/A	D	C	A	A	N/A	N/A	N/A	N/A	N/A	B	A	B	A ¹	A	D	D	A	B	A ²	N/A	N/A	A	D
Trisodium Phosphate	B	B	B	A	A	A	A	A	A	A	A	N/A	A	A	A	A	B ¹	A	A	A	A	A	A	N/A	A	A
Urea	B	B	B	A	B	A	A	B	B	A	A	A	N/A	B	A	A	A	D	A	A	D	A	B	A	B	A
Water, Deionized	A	A ²	A ²	N/A	A	A	A	A	N/A	A	N/A	N/A	A	A	A	A ¹	N/A	N/A	A ²	A	A	A ²	N/A	A	A	A
Water, Distilled	A	A	B	B	A	A	A	A	N/A	A	A ²	A	A	A	A	A	N/A	A ²	A	A	A	A	C	A	B	A
Water, Fresh	A	A	A	A ²	A	A	A	A	A	A	A ²	A	A	A	A	A ¹	N/A	A ²	A	A	B	A	B	A	B	A
Water, Salt	B	B	A ²	A	A	A	A	A	A	A	A ²	A	A	A	A	A ²	N/A	A ²	A	A	B	A	B	A	B	A
Zinc Chloride	B	B	A	C	A	A	A	B	A	A	A	A	A	A	A	A	N/A	A	A	A	B	A	B	A	A	A
Zinc Sulfate, 10%	B	A	A	C	A	A	A	A	D	A	A ²	A	B	A	A	A	A	A ²	A	A	A	A	A	A	A	A

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.



End your search, simplify your supply chain
ISO 9001:2015 Certified Companies

4091 S. Eliot St., Englewood, CO 80110-4396
Phone 303-781-8486 | Fax 303-761-7939
industrialspec.com

© Copyright 2020 Industrial Specialties Mfg.