TECHNICAL DATA SHEET

Stainless steel type SA

General notes:

- » Low carbon austenitic steel (Material number 1.4435, DIN X2CrNiMo18-14-3, AISI number 316L)
- » contains from 16.5 to 18.5 wt% chromium and has important quantities of nickel and molybdenum as additional alloying elements
- » non-magnetizable
- » good corrosion resistance to most chemicals, salts and acids
- » generally used where corrosion resistance and toughness are primary requirements
- » typical applications include tweezers for the electronic industry, watch-makers, jewelers and laboratory and medical applications in moderately aggressive chemical environments

Composition

Component	Wt.%	Component	Wt.%	Component	Wt.%
С	≤0.03	Si	≤1.0	Mn	≤2.0
Р	≤0.045	S	≤0.03	Cr	17.0-19.0
Мо	2.5-3.0	Ni	12.5-15.0		

Mechanical properties

Density 8.0 g/cm^3 Hardness HB30 ≤ 215 Hardness Rockwell B79Tensile strength, ultimate $500-700 \text{ MPa}$ Tensile strength, vield 290
Hardness Rockwell B79Tensile strength, ultimate500-700 MPa
Tensile strength, ultimate500-700 MPa
Tensile strength, vield 290
0.2% Yield stress ≥ 200 MPa
Elongation, break 40%
Modulus of elasticity 200 GPa

Thermal properties

Coef. of lin. therm expansion	16.0 E-6/°C	20°C-100°C
Coef. of lin. therm expansion	17.0 E-6/°C	20°C-300°C
Specific heat capacity	0.50 J/(g·K)	
Thermal conductivity	15 W/(m·K)	
Continuos use temperature	350°C	
Max service temperature, air	925°C	

Electrical properties

Resistivity

0.75 E-4 Ohm.cm

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-Tek SA declines all responsibility from an improper use of the product described in this document.



TECHNICAL DATA SHEET

High performance plastic type SV

General notes:

- » PVDF polyvinylidene fluoride carbon fibre reinforced
- » excellent mechanical strength and toughness
- » smooth surface
- » heat stabilized, high heat capability, continuous use temperature up to 150°C
- » high purity (clean room and medical devices approved, low extraction value)
- » excellent chemical resistance to most aggressive substances (mineral and organic acid) and solvents (hydrocarbons, alcohols, halogenated), resistant to halogens
- » outstanding resistance to hydrofluoric acid (40% conc., 90°C), nitric acid (50% conc., 90°C), hydrochloric acid (36% conc., 90°C)
- » high abrasion resistant
- » resistant to UV and nuclear radiation (sterilisation)
- » ESD safe material, (avoid powder attraction, sparks generation, ignition sources)
- » typical applications include handling of very scratch- and contamination-sensitive components, cleaning and etching processes

Mechanical properties

Flexural modulus +23°C Tensile modulus +23°C Tensile strength +23°C Flexural strength +23°C	7500 MPa 8000 MPa 120 MPa 150 MPa	ASTM D 790 ASTM D638 ASTM D638 ASTM D790
Shore D hardness	82	ASTM D 2240
Izod-Impact strength (notched) +23°C	110 J/m	ASTM D 256
Thermal properties		
Temp. of defl. under load (1.80 MPa)	158 °C	ASTM D648
Temp. of defl. under load (0.45 MPa)	170 °C	ASTM D648
Vicat softening temperature (50°C/h 50N)	172 °C	ISO 306
Coef. of lin. therm expansion, normal	7.00 E-5/°C	ASTM D 696
Continuous Use Temperature	150°C	20'000 h
Short Time Temperature	200°C	
Electrical properties		
Surface resistivity	<1.0E5 Ohm	ASTM D257
Volume resistivity	<1.0E3 Ohm.cm	ASTM D257
Other properties		
Density	1.37 g/ccm	ISO 1183
Water absorption in water 23°C (24h)	0.65%	ISO 62

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Chemical Compatibility Plastic Material Chart for CF, CP, LC, SV and DG Ratings -- Chemical Effect

Ratings -- Chemical Effect A = Excellent. B = Good -- Minor Effect, slight corrosion or discoloration. C = Fair -- Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur. D = Severe Effect, not recommended for ANY use. N/A = Information Not Available. Explanation of Footnotes 1. Satisfactory to 72°F (22° C) 2. Satisfactory to 120°F (48° C)

Chemical	CF	CP	LC	SV	DG
cetaldehyde	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect	A- Excellent
cetamide	A- Excellent	N/A	A- Excellent	C- Fair	A- Excellent
cetate Solvent	A- Excellent	N/A	A- Excellent	A- Excellent	N/A
cetic Acid	D- Severe Effect	A- Excellent	A- Excellent	C- Fair	D- Severe Effect
cetic Acid 20%	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	C- Fair
cetic Acid 80%	D- Severe Effect	A- Excellent	A- Excellent	C- Fair	D- Severe Effect
cetic Acid, Glacial	B- Good	A- Excellent	A- Excellent	A1- Excellent	D- Severe Effect
cetic Anhydride	A1- Excellent	N/A	A- Excellent	B1- Good	D- Severe Effect
cetone	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect	A- Excellent
cetyl Bromide	D- Severe Effect	N/A	N/A	N/A	N/A
cetyl Chloride (dry)	B- Good	N/A	A- Excellent	A2- Excellent	D- Severe Effect
cetylene	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
crylonitrile	A1- Excellent	A1- Excellent	N/A	A1- Excellent	N/A
dipic Acid	N/A	N/A	N/A	A2- Excellent	N/A
-	A1- Excellent	N/A			
Icohols:Amyl			A- Excellent	A- Excellent	A- Excellent
Icohols:Benzyl	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Icohols:Butyl	D- Severe Effect	N/A	A- Excellent	A- Excellent	A- Excellent
cohols:Diacetone	A- Excellent	N/A	N/A	A1- Excellent	A- Excellent
cohols:Ethyl	A1- Excellent	N/A	A- Excellent	N/A	A1- Excellent
cohols:Hexyl	A- Excellent	N/A	N/A	N/A	A- Excellent
cohols:Isobutyl	A1- Excellent	N/A	N/A	N/A	A- Excellent
cohols:Isopropyl	D- Severe Effect	A- Excellent	A- Excellent	N/A	A- Excellent
cohols:Methyl	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
cohols:Octyl	A- Excellent		N/A	N/A	A- Excellent
-					
cohols:Propyl	D- Severe Effect	A- Excellent	A- Excellent	A2- Excellent	A- Excellent
uminum Chloride	B1- Good	A- Excellent	A- Excellent	A- Excellent	N/A
uminum Chloride 20%	D- Severe Effect	N/A	A- Excellent	A- Excellent	C- Fair
uminum Fluoride	A1- Excellent	N/A	A- Excellent	A- Excellent	C- Fair
uminum Hydroxide	A1- Excellent	N/A	N/A	A- Excellent	A- Excellent
uminum Nitrate	A1- Excellent	N/A	N/A	A2- Excellent	B1- Good
uminum Potassium Sulfate 10%	D- Severe Effect	N/A	N/A	B- Good	C- Fair
luminum Potassium Sulfate 100%	D- Severe Effect	N/A	N/A	N/A	C- Fair
uminum Sulfate	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	B1- Good
			N/A		N/A
lums	A- Excellent	A- Excellent		N/A	
mines	D- Severe Effect	N/A	B- Good	N/A	D- Severe Effect
mmonia 10%	A- Excellent	A- Excellent	A1- Excellent	A- Excellent	D- Severe Effect
mmonia Nitrate	D- Severe Effect	N/A	A- Excellent	A- Excellent	C- Fair
mmonia, anhydrous	A1- Excellent	A- Excellent	A1- Excellent	A- Excellent	D- Severe Effect
mmonia, liquid	B1- Good	A- Excellent	A1- Excellent	A- Excellent	D- Severe Effec
mmonium Acetate	A- Excellent	N/A	N/A	N/A	N/A
mmonium Bifluoride	N/A	N/A	N/A	A- Excellent	D- Severe Effec
mmonium Carbonate	A1- Excellent	N/A	A- Excellent	A- Excellent	D- Severe Effec
mmonium Caseinate	N/A	N/A	N/A	N/A	D- Severe Effec
mmonium Chloride	B- Good	A- Excellent	A- Excellent	A- Excellent	B- Good
mmonium Hydroxide	A- Excellent	A- Excellent	A- Excellent	A- Excellent	C- Fair
mmonium Nitrate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A2- Excellent
mmonium Oxalate	N/A	N/A	N/A	N/A	B- Good
mmonium Persulfate	D- Severe Effect	N/A	N/A	A1- Excellent	D- Severe Effect
mmonium Phosphate, Dibasic	C1- Fair	N/A	A- Excellent	A- Excellent	B2- Good
mmonium Phosphate, Monobasic	B- Good	N/A	N/A	N/A	B- Good
mmonium Phosphate, Tribasic	B- Good	N/A	N/A	N/A	B- Good
mmonium Sulfate	A1- Excellent	N/A	A- Excellent	A- Excellent	B1- Good
mmonium Sulfite	A1- Excellent	N/A	N/A	N/A	D- Severe Effect
mmonium Thiosulfate	N/A	N/A N/A	N/A N/A	N/A N/A	B- Good
myl Acetate	B2- Good	A- Excellent	A- Excellent	A2- Excellent	B1- Good
myl Alcohol	A1- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
myl Chloride	C1- Fair	N/A	N/A	A- Excellent	A- Excellent
niline	A2- Excellent	A- Excellent	A- Excellent	A1- Excellent	A1- Excellent
niline Hydrochloride	D- Severe Effect	N/A	N/A	A2- Excellent	N/A
ntifreeze	D- Severe Effect	N/A	A- Excellent	N/A	D- Severe Effect
ntimony Trichloride	D- Severe Effect	A- Excellent	N/A	A- Excellent	N/A
qua Regia (80% HCl, 20% HNO3)	D- Severe Effect	N/A	D- Severe Effect	A2- Excellent	D- Severe Effec
rochlor 1248	A1- Excellent	N/A	N/A	N/A	N/A
romatic Hydrocarbons	N/A	N/A	N/A	N/A	A- Excellent
rsenic Acid	C1- Fair	N/A	A- Excellent	A- Excellent	D- Severe Effec
rsenic Acid	A- Excellent				
		N/A	N/A	N/A	N/A
sphalt	A- Excellent	N/A	A- Excellent	A- Excellent	B2- Good
arium Carbonate	A1- Excellent	A- Excellent	A2- Excellent	A- Excellent	A- Excellent
arium Chloride	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
arium Cyanide	A1- Excellent	A- Excellent	N/A	N/A	B- Good
arium Hydroxide	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effec
arium Nitrate	A1- Excellent	A- Excellent	N/A	N/A	B2- Good
arium Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B2-Good
arium Sulfide	A1- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
eer	A1- Excellent	A- Excellent	A2- Excellent	A- Excellent	A1- Excellent
eet Sugar Liquids	A- Excellent	N/A	N/A	A- Excellent	B- Good
enzaldehyde	A1- Excellent	N/A	A- Excellent	A2- Excellent	A- Excellent
enzene	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	A1- Excellent
enzene Sulfonic Acid	D- Severe Effect	C- Fair	A- Excellent	N/A	N/A
enzoic Acid	D- Severe Effect	A- Excellent	A1- Excellent	A- Excellent	B- Good
		N/A	A- Excellent	A- Excellent	A- Excellent

Chemical	CF	CP	LC	sv	DG												
enzonitrile	N/A	N/A	A2- Excellent	N/A	N/A												
enzyl Chloride	A2- Excellent	N/A	A2- Excellent	N/A	A- Excellent												
eaching Liquors	C- Fair	A- Excellent	N/A	N/A	N/A												
orax (Sodium Borate)	A- Excellent	N/A	A- Excellent	A- Excellent	B- Good												
pric Acid	B- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent												
ewery Slop	N/A	N/A	N/A	N/A	B- Good												
omine	D- Severe Effect	D- Severe Effect	D- Severe Effect	A- Excellent	D- Severe Effect												
utadiene	C1- Fair	N/A	A1- Excellent	A- Excellent	A- Excellent												
	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent												
utanol (Butyl Alcohol)	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent												
utter	N/A	N/A	N/A	N/A	A- Excellent												
uttermilk	B1- Good	N/A	N/A	N/A	A- Excellent												
utyl Amine	A2- Excellent	N/A	D- Severe Effect	A1- Excellent	C1- Fair												
utyl Ether	A2- Excellent	N/A	A2- Excellent	A1- Excellent	D- Severe Effect												
utyl Phthalate	A2- Excellent	N/A	A- Excellent	B1- Good	N/A												
utylacetate	A- Excellent	A- Excellent	A- Excellent	B2- Good	A- Excellent												
utylene	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent												
utyric Acid	C1- Fair	N/A	A- Excellent	A- Excellent	A- Excellent												
alcium Bisulfate	N/A	N/A	N/A	N/A	N/A												
alcium Bisulfide	A- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect												
alcium Bisulfite	A2- Excellent	N/A	A- Excellent	A- Excellent	D- Severe Effect												
alcium Carbonate	A- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent												
alcium Chlorate	N/A	N/A	N/A	A- Excellent	A- Excellent												
alcium Chloride	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect												
alcium Hydroxide	A2- Excellent	A- Excellent	A- Excellent	A2- Excellent	D- Severe Effect												
alcium Hypochlorite	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect												
alcium Nitrate	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	D- Severe Effect												
alcium Oxide	B- Good	N/A	A- Excellent	A- Excellent	A- Excellent												
alcium Sulfate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect												
algon	A- Excellent	N/A	N/A	N/A	A- Excellent												
ane Juice	A- Excellent	N/A	N/A	A1- Excellent	A- Excellent												
arbolic Acid (Phenol)	D- Severe Effect	A- Excellent	A- Excellent	A1- Excellent	D- Severe Effect												
arbon Bisulfide	A- Excellent	N/A	A- Excellent	N/A	A- Excellent												
arbon Dioxide (dry)	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent												
arbon Dioxide (wet)	A1- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent												
arbon Disulfide	B1- Good	N/A	A- Excellent	B2- Good	A1- Excellent												
arbon Monoxide	A1- Excellent	A- Excellent	N/A	B- Good	A- Excellent												
arbon Tetrachloride	D- Severe Effect	A- Excellent	A- Excellent	A2- Excellent	B1- Good												
arbon Tetrachloride (dry)	N/A	N/A	A2- Excellent	A2- Excellent	N/A												
arbon Tetrachloride (wet)	N/A	N/A	A2- Excellent	A2- Excellent	A1- Excellent												
arbonated Water	A- Excellent	N/A	A- Excellent	N/A	A- Excellent												
arbonic Acid	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B1- Good												
atsup	A- Excellent	N/A	N/A	N/A	B- Good												
hloric Acid	D- Severe Effect	N/A	N/A	N/A	D- Severe Effect												
hlorinated Glue	N/A	N/A N/A	N/A N/A	N/A N/A	D- Severe Effect												
	D- Severe Effect		D- Severe Effect														
hlorine (dry)		A- Excellent		A- Excellent	D- Severe Effect												
hlorine Water	C1- Fair	D- Severe Effect	D- Severe Effect	B- Good	D- Severe Effect												
hlorine, Anhydrous Liquid	D- Severe Effect	D- Severe Effect	D- Severe Effect	A1- Excellent	A1- Excellent												
hloroacetic Acid	D- Severe Effect	A- Excellent	A- Excellent	A1- Excellent	D- Severe Effect												
hlorobenzene (Mono)	D- Severe Effect	N/A	A- Excellent	A1- Excellent	D- Severe Effect												
hlorobromomethane	C- Fair	N/A	N/A	N/A	N/A												
nloroform	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent												
nlorosulfonic Acid	D- Severe Effect	D- Severe Effect	D- Severe Effect	D- Severe Effect	D- Severe Effect												
nocolate Syrup	A- Excellent	N/A	N/A	N/A	A- Excellent												
nromic Acid 10%	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect												
nromic Acid 30%	D- Severe Effect	A- Excellent	B- Good	A2- Excellent	D- Severe Effect												
nromic Acid 5%	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect												
nromic Acid 50%	D- Severe Effect	D- Severe Effect	A1- Excellent	A2 Excellent													
nromium Salts		D OCTOR Elloot		A2- Excellent	D- Severe Effect												
Ironium Gaita	B- Good	N/A	N/A	N/A	D- Severe Effect N/A												
der	B- Good	N/A	N/A	N/A	N/A												
der tric Acid	B- Good A- Excellent	N/A N/A	N/A N/A	N/A N/A	N/A A- Excellent												
der tric Acid tric Oils	B- Good A- Excellent A1- Excellent	N/A N/A A- Excellent	N/A N/A A- Excellent	N/A N/A A- Excellent	N/A A- Excellent B1- Good												
der tric Acid tric Oils orox® (Bleach)	B- Good A- Excellent A1- Excellent N/A	N/A N/A A- Excellent N/A	N/A N/A A- Excellent N/A	N/A N/A A- Excellent N/A	N/A A- Excellent B1- Good B- Good												
der tric Acid tric Oils orox® (Bleach) offee	B- Good A- Excellent A1- Excellent N/A A- Excellent	N/A N/A A- Excellent N/A N/A	N/A N/A A- Excellent N/A D- Severe Effect	N/A N/A A- Excellent N/A A- Excellent	N/A A- Excellent B1- Good B- Good D- Severe Effect												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride	B- Good A- Excellent A1- Excellent N/A A- Excellent A- Excellent	N/A N/A A- Excellent N/A N/A N/A	N/A N/A A- Excellent N/A D- Severe Effect N/A	N/A N/A A- Excellent N/A A- Excellent N/A	N/A A- Excellent B1- Good B- Good D- Severe Effect A- Excellent												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride opper Cyanide	B- Good A- Excellent A1- Excellent N/A A- Excellent A- Excellent D- Severe Effect	N/A N/A A- Excellent N/A N/A N/A A- Excellent	N/A N/A A- Excellent N/A D- Severe Effect N/A A- Excellent	N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent	N/A A- Excellent B1- Good B- Good D- Severe Effect A- Excellent A- Excellent												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride opper Cyanide opper Fluoborate	B- Good A- Excellent A1- Excellent N/A A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A	N/A N/A A- Excellent N/A N/A N/A A- Excellent A- Excellent N/A	N/A N/A A- Excellent N/A D- Severe Effect N/A A- Excellent A- Excellent N/A	N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A	N/A A- Excellent B1- Good D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride opper Cyanide opper Fluoborate opper Nitrate	B- Good A- Excellent A1- Excellent N/A A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect	N/A N/A A- Excellent N/A N/A N/A A- Excellent N/A A- Excellent N/A	N/A N/A A- Excellent N/A D- Severe Effect N/A A- Excellent N/A A- Excellent N/A A- Excellent	N/A N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A	N/A A- Excellent B1- Good D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride opper Cyanide opper Fluoborate opper Nitrate opper Sulfate >5%	B- Good A- Excellent A1- Excellent N/A A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect	N/A N/A A- Excellent N/A N/A N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent	N/A N/A A- Excellent N/A D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent	N/A A- Excellent B1- Good D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride opper Cyanide opper Fluoborate opper Nitrate opper Sulfate >5% opper Sulfate 5%	B- Good A- Excellent A1- Excellent N/A A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect	N/A N/A N/A N/A N/A N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	N/A N/A A- Excellent N/A D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent	N/A A- Excellent B1- Good D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride opper Cyanide opper Fluoborate opper Nitrate opper Sulfate >5% opper Sulfate 5% ream	B- Good A- Excellent A1- Excellent N/A A- Excellent A- Excellent D- Severe Effect N/A D- Severe Effect A- Excellent	N/A N/A A- Excellent N/A N/A N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A	N/A N/A A- Excellent N/A D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A	N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A	N/A A- Excellent B1- Good D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent												
der tric Acid tric Oils orox® (Bleach) offee opper Chloride opper Chloride opper Fluoborate opper Nitrate opper Sulfate >5% opper Sulfate 5% eam resols	B- Good A- Excellent A1- Excellent N/A A- Excellent A- Excellent D- Severe Effect	N/A N/A A- Excellent N/A N/A N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A	N/A N/A - Excellent N/A D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent	N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A	N/A A- Excellent B1- Good D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect												
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N/A N/A A- Excellent N/A D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent A- Excellent	N/A N/A A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent	N/A A- Excellent B1- Good B- Good D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A- Excellent N/A A1- Excellent N/A B- Good A1- Excellent N/A B- Good A1- Excellent D- Severe Effect															

Chemical	CF	CP	LC	SV	DG
Epsom Salts (Magnesium Sulfate)	A1- Excellent	N/A	A- Excellent	A- Excellent	B- Good
thane	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	A1- Excellent
thanol	A1- Excellent	N/A	A- Excellent	N/A	A1- Excellent
thanolamine	A- Excellent	N/A	A- Excellent	C1- Fair	D- Severe Effect
her	A- Excellent	N/A	A- Excellent	B1- Good	A1- Excellent
hyl Acetate	A2- Excellent	A- Excellent	A- Excellent	D- Severe Effect	A- Excellent
hyl Benzoate	N/A	N/A	N/A	D- Severe Effect	N/A
hyl Chloride	A1- Excellent	N/A	A- Excellent	A- Excellent	A1- Excellent
hyl Ether	A1- Excellent	N/A	A- Excellent	A2- Excellent	A1- Excellent
hyl Sulfate	N/A	N/A	N/A	N/A	N/A
hylene Bromide	N/A	N/A	N/A	A- Excellent	N/A
hylene Chloride	A- Excellent	N/A	A- Excellent	A- Excellent	A1- Excellent
hylene Chlorohydrin	D- Severe Effect	N/A	A2- Excellent	A- Excellent	D- Severe Effect
hylene Diamine	D- Severe Effect	N/A	A- Excellent	B- Good	D- Severe Effect
hylene Dichloride	A1- Excellent	N/A	A- Excellent	A- Excellent	B1- Good
hylene Glycol	A- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
hylene Oxide	A1- Excellent	A- Excellent	D- Severe Effect	A- Excellent	D- Severe Effect
atty Acids	A1- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
erric Chloride	A- Excellent	B- Good	A- Excellent	A- Excellent	D- Severe Effect
erric Nitrate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
erric Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
errous Chloride	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
errous Sulfate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
uoboric Acid	D- Severe Effect	N/A	A- Excellent	A1- Excellent	A1- Excellent
uorine	D- Severe Effect	D- Severe Effect	D- Severe Effect	A1- Excellent	D- Severe Effect
uosilicic Acid	D- Severe Effect	N/A	A- Excellent	A1- Excellent	A1- Excellent
ormaldehyde 100%	D- Severe Effect	A- Excellent	B- Good	A- Excellent	A- Excellent
prmaldehyde 40%	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A2- Excellent
prmic Acid	D- Severe Effect	B- Good	A- Excellent	A- Excellent	A2- Excellent
eon 113	N/A	A- Excellent	A- Excellent	B- Good	A- Excellent
eon 12	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
eon 22	B- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
eon TF	D- Severe Effect	A- Excellent N/A	D- Severe Effect	B- Good	A- Excellent
	D- Severe Effect	N/A N/A	A- Excellent	A- Excellent	D- Severe Effect
reon® 11 ruit Juice	A- Excellent	A- Excellent	A- Excellent N/A	A- Excellent A- Excellent	D- Severe Effect
uel Oils	A1- Excellent	N/A	A- Excellent	B- Good	A- Excellent
uran Resin	N/A	N/A	A- Excellent	D- Severe Effect	D- Severe Effect
urfural	B- Good	N/A	A- Excellent	B2- Good	A- Excellent
allic Acid	A- Excellent	N/A	A- Excellent	A1- Excellent	N/A
asoline (high-aromatic)	A- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
asoline, leaded, ref.	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
asoline, unleaded	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
elatin	A1- Excellent	A- Excellent	N/A	A- Excellent	B- Good
lucose	A- Excellent	N/A	B- Good	A- Excellent	A- Excellent
lue, P.V.A.	A1- Excellent	N/A	N/A	N/A	A- Excellent
lycerin	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
lycolic Acid	N/A	N/A	A- Excellent	B- Good	A- Excellent
old Monocyanide	N/A	N/A	N/A	A- Excellent	A- Excellent
rape Juice	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
rease	N/A	N/A	N/A	A- Excellent	D- Severe Effect
eptane	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
exane	B- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
oney	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
ydraulic Oil (Petro)	A1- Excellent	A- Excellent	D- Severe Effect	A- Excellent	B- Good
vdraulic Oil (Synthetic)	A1- Excellent	A- Excellent	N/A	A- Excellent	N/A
vdrazine	N/A	A- Excellent	A2- Excellent	A- Excellent	B- Good
ydrobromic Acid 100%	D- Severe Effect	D- Severe Effect	A1- Excellent	A- Excellent	D- Severe Effect
vdrobromic Acid 20%	D- Severe Effect	N/A	A1- Excellent	A- Excellent	C- Fair
vdrochloric Acid 100%	D- Severe Effect	A- Excellent	D- Severe Effect	A- Excellent	C- Fair
vdrochloric Acid 20%	D- Severe Effect	A- Excellent	D- Severe Effect	A- Excellent	C- Fair
ydrochloric Acid 20 %	D- Severe Effect	A- Excellent	D- Severe Effect	A- Excellent	C- Fair
vdrochloric Acid, Dry Gas	A1- Excellent	N/A	A- Excellent	A- Excellent	N/A
ydrocyanic Acid	B- Good	A- Excellent	B- Good	A- Excellent	B- Good
vdrocyanic Acid (Gas 10%)	N/A	N/A	N/A	N/A	C- Fair
ydrofluoric Acid 100%	D- Severe Effect	D- Severe Effect	D- Severe Effect	A- Excellent	D- Severe Effect
vdrofluoric Acid 20%	C1- Fair	D- Severe Effect	C1- Fair	A- Excellent	D- Severe Effect
		D- Severe Effect	D- Severe Effect		D- Severe Effect
ydrofluoric Acid 50%	D- Severe Effect			A- Excellent	
ydrofluoric Acid 75%	D- Severe Effect	D- Severe Effect	D- Severe Effect	A- Excellent	D- Severe Effect
ydrofluosilicic Acid 100%	D- Severe Effect	N/A	A1- Excellent	A1- Excellent	A- Excellent
ydrofluosilicic Acid 20%	D- Severe Effect	N/A	A- Excellent	A- Excellent	B- Good
ydrogen Gas	A2- Excellent	N/A	A- Excellent	A- Excellent	N/A
vdrogen Peroxide 10%	C1- Fair	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
/drogen Peroxide 100%	D- Severe Effect	N/A	C- Fair	A1- Excellent	D- Severe Effect
vdrogen Peroxide 30%	D- Severe Effect	N/A	A1- Excellent	A- Excellent	D- Severe Effect
vdrogen Peroxide 50%	D- Severe Effect	N/A	N/A	A1- Excellent	D- Severe Effect
/drogen Sulfide (aqua)	C1- Fair	N/A	A- Excellent	A- Excellent	C- Fair
ydrogen Sulfide (dry)	C1- Fair	A- Excellent	A- Excellent	A- Excellent	N/A
/droquinone	D- Severe Effect	N/A	N/A	N/A	A- Excellent
vdroxyacetic Acid 70%	N/A	N/A	N/A	A- Excellent	A- Excellent
	C- Fair	N/A	N/A	A- Excellent	B- Good
k		C- Fair	D- Severe Effect	A2- Excellent	D- Severe Effect
	A- Excellent		N/A	A- Excellent	D- Severe Effect
dine	A- Excellent C- Fair	N/A	11/7		
dine dine (in alcohol)		N/A	N/A		N/A
dine dine (in alcohol) doform	C- Fair N/A	N/A N/A	N/A	C- Fair	N/A N/A
dine dine (in alcohol) doform poctane	C- Fair N/A A1- Excellent	N/A N/A A- Excellent	N/A A- Excellent	C- Fair A2- Excellent	N/A
dine dine (in alcohol) doform poctane ppropyl Acetate	C- Fair N/A A1- Excellent B1- Good	N/A N/A A- Excellent N/A	N/A A- Excellent N/A	C- Fair A2- Excellent D- Severe Effect	N/A D- Severe Effect
dine dine (in alcohol) doform ooctane opropyl Acetate opropyl Ether	C- Fair N/A A1- Excellent B1- Good A1- Excellent	N/A N/A A- Excellent N/A N/A	N/A A- Excellent N/A N/A	C- Fair A2- Excellent D- Severe Effect D- Severe Effect	N/A D- Severe Effect D- Severe Effect
dine dine (in alcohol) doform ooctane opropyl Acetate opropyl Ether otane	C- Fair N/A A1- Excellent B1- Good A1- Excellent D- Severe Effect	N/A N/A A- Excellent N/A N/A N/A	N/A A- Excellent N/A N/A N/A	C- Fair A2- Excellent D- Severe Effect D- Severe Effect A- Excellent	N/A D- Severe Effect D- Severe Effect N/A
k dine (in alcohol) doform ooctane opropyl Acetate opropyl Ether otane at Fuel (JP3, JP4, JP5) erosene	C- Fair N/A A1- Excellent B1- Good A1- Excellent	N/A N/A A- Excellent N/A N/A	N/A A- Excellent N/A N/A	C- Fair A2- Excellent D- Severe Effect D- Severe Effect	N/A D- Severe Effect D- Severe Effect

Chemical	CF	CP	LC	SV	DG
Lacquer Thinners	A1- Excellent	N/A	N/A	N/A	D- Severe Effect
Lacquers	A1- Excellent	N/A	N/A	D- Severe Effect	D- Severe Effect
Lactic Acid Lard	B- Good A1- Excellent	A- Excellent N/A	A- Excellent N/A	B1- Good A- Excellent	B- Good A- Excellent
Latex	A1- Excellent	N/A N/A	N/A N/A	A- Excellent	B- Good
Lead Acetate	A- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good B- Good
Lead Nitrate	N/A	N/A	A- Excellent	A2- Excellent	N/A
Lead Sulfamate	B1- Good	N/A	N/A	A- Excellent	A- Excellent
Ligroin	D- Severe Effect	N/A	N/A	A- Excellent	B- Good
Lime	A1- Excellent	A- Excellent	N/A	A- Excellent	B- Good
Linoleic Acid	N/A	N/A	N/A	A2- Excellent	B- Good
Lithium Chloride	N/A	N/A	A- Excellent	A2- Excellent	A- Excellent
Lithium Hydroxide	N/A	N/A	N/A	N/A	N/A
Lubricants	A1- Excellent A2- Excellent	A- Excellent N/A	A- Excellent A- Excellent	A- Excellent A2- Excellent	A- Excellent D- Severe Effect
Lye: Ca(OH)2 Calcium Hydroxide Lye: KOH Potassium Hydroxide	C- Fair	N/A N/A	A- Excellent	A2- Excellent	A- Excellent
Lye: NaOH Sodium Hydroxide	A- Excellent	N/A N/A	A- Excellent	D- Severe Effect	C- Fair
Magnesium Bisulfate	A1- Excellent	N/A	N/A	N/A	N/A
Magnesium Carbonate	N/A	N/A	N/A	A- Excellent	A- Excellent
Magnesium Chloride	A1- Excellent	A- Excellent	A1- Excellent	A- Excellent	B1- Good
Magnesium Hydroxide	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Magnesium Nitrate	A1- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
Magnesium Oxide	N/A	N/A	N/A	N/A	A- Excellent
Magnesium Sulfate (Epsom Salts)	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
Maleic Acid	A- Excellent	A- Excellent	B- Good	A- Excellent	A- Excellent
Maleic Anhydride	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Malic Acid	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Manganese Sulfate	A2- Excellent	N/A	A2- Excellent	A2- Excellent	A1- Excellent
Mash Mayonnaisa	A- Excellent A- Excellent	N/A N/A	N/A N/A	N/A A- Excellent	A- Excellent A- Excellent
Mayonnaise Melamine	A- Excellent A- Excellent	N/A N/A	N/A N/A	A- Excellent N/A	A- Excellent A- Excellent
Mercuric Chloride (dilute)	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	B- Good
Mercuric Cyanide	A2- Excellent	N/A	A- Excellent	A- Excellent	N/A
Mercurous Nitrate	N/A	N/A N/A	N/A	A- Excellent	N/A N/A
Mercury	A- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
Methane	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Methanol (Methyl Alcohol)	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Methyl Acetate	A2- Excellent	N/A	N/A	B1- Good	B- Good
Methyl Acetone	A- Excellent	N/A	N/A	D- Severe Effect	D- Severe Effect
Methyl Acrylate	N/A	N/A	A- Excellent	B1- Good	B- Good
Methyl Alcohol 10%	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Methyl Bromide	B1- Good	N/A	N/A	A- Excellent	D- Severe Effect
Methyl Butyl Ketone	D- Severe Effect	N/A	N/A	D- Severe Effect	D- Severe Effect
Methyl Cellosolve	C- Fair	N/A	N/A	A- Excellent	D- Severe Effect
Methyl Chloride	B1- Good	N/A	B- Good	A- Excellent	B- Good
Methyl Dichloride	C- Fair	N/A	N/A	D- Severe Effect	D- Severe Effect
Methyl Ethyl Ketone Methyl Ethyl Ketone Peroxide	A1- Excellent N/A	A- Excellent N/A	A- Excellent N/A	D- Severe Effect N/A	C- Fair N/A
Methyl Isobutyl Ketone	B2- Good	N/A N/A	A- Excellent	D- Severe Effect	N/A N/A
Methyl Isopropyl Ketone	A- Excellent	N/A N/A	N/A	N/A	N/A N/A
Methyl Methacrylate	N/A	N/A	A- Excellent	B1- Good	D- Severe Effect
Methylamine	N/A	N/A	N/A	C- Fair	D- Severe Effect
Methylene Chloride	C1- Fair	N/A	A- Excellent	B1- Good	B- Good
Milk	A- Excellent	A- Excellent	N/A	A2- Excellent	A- Excellent
Mineral Spirits	A- Excellent	N/A	A- Excellent	N/A	A- Excellent
Molasses	A1- Excellent	A- Excellent	N/A	B1- Good	A- Excellent
Monochloroacetic acid	D- Severe Effect	N/A	N/A	B1- Good	D- Severe Effect
Monoethanolamine	A- Excellent	N/A	A- Excellent	C- Fair	D- Severe Effect
Morpholine	A2- Excellent	N/A	C- Fair	B1- Good	N/A
Motor oil	A2- Excellent	A- Excellent	A- Excellent	B- Good	B- Good
Mustard Naphtha	A- Excellent A- Excellent	N/A A- Excellent	N/A A- Excellent	A- Excellent A- Excellent	C- Fair A1- Excellent
Naphthalene	A- Excellent A1- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A2- Excellent	A1- Excellent A1- Excellent
Natural Gas	N/A	A- Excellent	N/A	N/A	B- Good
Nickel Chloride	C1- Fair	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Nickel Nitrate	A1- Excellent	A- Excellent	N/A	A2- Excellent	N/A
Nickel Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Nitrating Acid (<15% HNO3)	N/A	N/A	C- Fair	N/A	N/A
Nitrating Acid (>15% H2SO4)	N/A	N/A	D- Severe Effect	N/A	D- Severe Effect
Nitrating Acid (Š1% Acid)	N/A	N/A	C- Fair	N/A	N/A
Nitrating Acid (Š15% H2SO4)	N/A	N/A	C- Fair	N/A	N/A
Nitric Acid (20%)	D- Severe Effect	B- Good	C- Fair	A- Excellent	D- Severe Effect
Nitric Acid (50%)	D- Severe Effect	D- Severe Effect	C- Fair	A1- Excellent	D- Severe Effect
Nitric Acid (5-10%)	D- Severe Effect	A- Excellent	B1- Good	A1- Excellent	D- Severe Effect
Nitric Acid (Concentrated)	D- Severe Effect	D- Severe Effect	C- Fair	A1- Excellent	D- Severe Effect
Nitrobenzene	B1- Good	A- Excellent	A2- Excellent	A1- Excellent	C- Fair
Nitrogen Fertilizer Nitromethane	N/A B1- Good	N/A N/A	N/A A2- Excellent	N/A	N/A
Nitromethane	N/A	A- Excellent	N/A	A2- Excellent B- Good	A- Excellent N/A
Nitrous Oxide	C- Fair	A- Excellent	N/A N/A	D- Severe Effect	N/A N/A
Dils:Aniline	A- Excellent	N/A	N/A	A- Excellent	D- Severe Effect
Dils:Anise	N/A	N/A	N/A	N/A	D- Severe Effect
Dils:Bay	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Dils:Bone	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Dils:Castor	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Dils:Cinnamon	N/A	N/A	N/A	N/A	D- Severe Effect
Dils:Citric	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oils:Clove	N/A	N/A	N/A	N/A	N/A
Oils:Coconut	N/A	N/A	N/A	A- Excellent	A- Excellent
Oils:Cod Liver	N/A	N/A	N/A	A- Excellent	B- Good

Chemical	CF	CP	LC	SV	DG
Oils:Corn	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Dils:Cottonseed	B- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Dils:Creosote	D- Severe Effect	N/A	N/A	N/A	D- Severe Effect
Dils:Diesel Fuel (20, 30, 40, 50)	A- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Dils:Fuel (1, 2, 3, 5A, 5B, 6) Dils:Ginger	A- Excellent N/A	A- Excellent N/A	A- Excellent N/A	B- Good A- Excellent	D- Severe Effect A- Excellent
Dils:Hydraulic Oil (Petro)	A1- Excellent	N/A N/A	D- Severe Effect	A- Excellent	B- Good
Oils:Hydraulic Oil (Synthetic)	A1- Excellent	N/A N/A	N/A	A- Excellent	N/A
Dils:Lemon	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Dils:Linseed	A1- Excellent	A- Excellent	B- Good	A- Excellent	A- Excellent
Oils:Mineral	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Oils:Olive	A1- Excellent	A- Excellent	N/A	N/A	A- Excellent
Oils:Orange	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Palm	N/A	A- Excellent	N/A	A- Excellent	A- Excellent
Oils:Peanut	N/A	A- Excellent	N/A	A- Excellent	A- Excellent
Oils:Peppermint	N/A	N/A N/A	N/A	A- Excellent	D- Severe Effect
Oils:Pine Oils:Rapeseed	A- Excellent N/A	N/A N/A	N/A N/A	A- Excellent A- Excellent	A- Excellent A- Excellent
Dils:Rosin	A1- Excellent	N/A N/A	N/A N/A	A- Excellent	N/A
Dils:Sesame Seed	N/A	A- Excellent	N/A	A- Excellent	D- Severe Effect
Dils:Silicone	A1- Excellent	N/A	A1- Excellent	A- Excellent	A- Excellent
Dils:Soybean	A- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
Oils:Sperm (whale)	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Dils:Tanning	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Dils:Transformer	A1- Excellent	N/A	N/A	A- Excellent	A- Excellent
Dils:Turbine	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oleic Acid	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Oleum 100%	D- Severe Effect	D- Severe Effect	A1- Excellent	D- Severe Effect	D- Severe Effect
Oleum 25%	D- Severe Effect	D- Severe Effect	A1- Excellent	C1- Fair	D- Severe Effect
Dxalic Acid (cold)	B2- Good	A- Excellent	A- Excellent	B- Good A- Excellent	B- Good
Dzone Palmitic Acid	D- Severe Effect A- Excellent	A- Excellent N/A	max 100 pppm N/A	A- Excellent A2- Excellent	C- Fair A- Excellent
Paraffin	A- Excellent A1- Excellent	A- Excellent	N/A N/A	A2- Excellent A- Excellent	A- Excellent A- Excellent
Pentane	A1- Excellent	A- Excellent	N/A N/A	A- Excellent	B- Good
Perchloric Acid	D- Severe Effect	A- Excellent	N/A	A- Excellent	C- Fair
Perchloroethylene	C1- Fair	N/A	A- Excellent	A- Excellent	B- Good
Petrolatum	D- Severe Effect	N/A	N/A	A- Excellent	B- Good
Petroleum	A1- Excellent	N/A	N/A	A- Excellent	B- Good
Phenol (10%)	D- Severe Effect	N/A	A- Excellent	A- Excellent	B- Good
Phenol (Carbolic Acid)	D- Severe Effect	N/A	A- Excellent	A1- Excellent	D- Severe Effect
Phosphoric Acid (>40%)	B1- Good	A- Excellent	A- Excellent	B- Good	D- Severe Effect
Phosphoric Acid (crude)	B1- Good	N/A	A- Excellent	A- Excellent	D- Severe Effect
Phosphoric Acid (molten)	N/A	N/A	N/A	D- Severe Effect	D- Severe Effect
Phosphoric Acid (<40%)	B1- Good	A- Excellent	A- Excellent	B- Good	D- Severe Effect
Phosphoric Acid Anhydride Phosphorus	N/A N/A	N/A N/A	D- Severe Effect N/A	D- Severe Effect A1- Excellent	D- Severe Effect B- Good
Phosphorus Trichloride	N/A N/A	A- Excellent	A- Excellent	A1- Excellent	D- Severe Effect
Photographic Developer	N/A	N/A	N/A	N/A	D- Severe Effect
Photographic Solutions	A1- Excellent	N/A	A2- Excellent	B2- Good	D- Severe Effect
Phthalic Acid	B1- Good	A- Excellent	N/A	A2- Excellent	C- Fair
Phthalic Anhydride	N/A	N/A	N/A	A- Excellent	C- Fair
Picric Acid	C1- Fair	A- Excellent	A- Excellent	A1- Excellent	A- Excellent
Plating Solutions, Antimony Plating	D- Severe Effect	N/A	N/A	A- Excellent	A- Excellent
Plating Solutions, Arsenic Plating	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Plating Solutions, Brass Plating: High-Speed Brass Bath	A- Excellent	N/A	N/A	B- Good	A- Excellent
Plating Solutions, Brass Plating: Regular Brass Bath	A- Excellent	N/A	N/A	B- Good	A- Excellent
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath	A- Excellent A- Excellent	N/A N/A	N/A N/A	A- Excellent A- Excellent	A- Excellent B- Good
Plating Solutions, Bronze Plating: Cu-Sn Biolize Bath Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath	A- Excellent	N/A N/A	N/A N/A	A- Excellent	A- Excellent
Plating Solutions, Cadmium Plating: Cu-211 Biolize Bath	A- Excellent	N/A N/A	N/A N/A	A- Excellent	A- Excellent
Plating Solutions, Cadmium Plating: Cyande Bath so T	D- Severe Effect	N/A N/A	N/A	A- Excellent	C- Fair
Plating Solutions, Chromium Plating: Barrel Chrome	D- Severe Effect	N/A	N/A	C- Fair	D- Severe Effect
Plating Solutions, Chromium Plating: Black Chrome	D- Severe Effect	N/A	N/A	C- Fair	D- Severe Effect
Plating Solutions, Chromium Plating: Chromic-Sulfuric	D- Severe Effect	N/A	N/A	C- Fair	D- Severe Effect
Plating Solutions, Chromium Plating: Fluoride Bath	D- Severe Effect	N/A	N/A	C- Fair	D- Severe Effect
Plating Solutions, Chromium Plating: Fluosilicate Bath	D- Severe Effect	N/A	N/A	C- Fair	D- Severe Effect
Plating Solutions, Copper Plating	D- Severe Effect	N/A	N/A	A- Excellent	C- Fair
Plating Solutions, Copper Plating	D- Severe Effect	N/A	N/A	A- Excellent	A- Excellent
Plating Solutions, Copper Plating	A- Excellent	N/A	N/A	B- Good	A- Excellent
Plating Solutions, Copper Plating	A- Excellent	N/A N/A	N/A N/A	A- Excellent A- Excellent	B- Good B- Good
Plating Solutions, Copper Plating Plating Solutions, Copper Plating	A- Excellent A- Excellent	N/A N/A	N/A N/A	A- Excellent A- Excellent	D- Severe Effect
Plating Solutions, Copper Plating	A- Excellent	N/A N/A	N/A N/A	A- Excellent	A- Excellent
Plating Solutions, Gold Plating: Acid	A- Excellent	N/A	N/A	N/A	N/A
Plating Solutions, Gold Plating: Cyanide 150°F	A- Excellent	N/A	N/A	N/A	N/A
Plating Solutions, Gold Plating: Neutral 75°F	A- Excellent	N/A	N/A	N/A	N/A
Plating Solutions, Indium Sulfamate	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Iron Plating: Ferrous Chloride Bath	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Iron Plating: Ferrous Sulfate Bath	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Iron Plating: Fluoborate Bath 145°F	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Iron Plating: Sulfamate 140°F	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Iron Plating: Sulfate-Chloride Bath	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Lead Fluoborate	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Nickel Plating: Electroless 200°F	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Nickel Plating: Fluoborate 100-170°F	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Nickel Plating: High-Chloride 130-	D- Severe Effect	N/A N/A	N/A	N/A N/A	N/A N/A
Plating Solutions, Nickel Plating: Sulfamate 100-140°F	A- Excellent A- Excellent	N/A	N/A	N/A N/A	N/A N/A
Plating Solutions, Nickel: Watts	D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Plating Solutions, Rhodium 120°F					

Chemical	CF	CP	LC	SV	DG
Plating Solutions, Silver 80-120°F	A- Excellent	N/A	N/A	N/A	N/A
Plating Solutions, Tin-Fluoborate	D- Severe Effect	N/A N/A	N/A	N/A	N/A N/A
Plating Solutions, Tin-Lead 100°F Plating Solutions, Zinc Plating: Acid	D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
lating Solutions, Zinc Plating: Acid	D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
ating Solutions, Zinc Plating: Acid	D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
ating Solutions, Zinc Plating: Alkaline Cyanide Bath	A- Excellent	N/A	N/A	N/A	N/A
otash (Potassium Carbonate)	A- Excellent	N/A	N/A	A- Excellent	B- Good
basin (Fotassium Carbonate)	A1- Excellent	A- Excellent	A- Excellent	B- Good	C- Fair
otassium Bromide	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
otassium Chlorate	C1- Fair	A- Excellent	A- Excellent	A- Excellent	B- Good
bassium Chloride	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
otassium Chromate	B- Good	A- Excellent	max 0.1%	B- Good	C- Fair
otassium Cyanide Solutions	A1- Excellent	N/A	A- Excellent	A- Excellent	C- Fair
otassium Dichromate	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent
otassium Ferricyanide	B1- Good B1- Good	A- Excellent	N/A	A2- Excellent	B1- Good
otassium Ferrocyanide	B1- Good	A- Excellent	N/A	A- Excellent	N/A
otassium Hydroxide (Caustic Potash)	C1- Fair	A- Excellent	A- Excellent	A- Excellent	A- Excellent
otassium Hypochlorite	B1- Good	N/A	A- Excellent	A1- Excellent	N/A
otassium lodide	A1- Excellent	N/A	A2- Excellent	A2- Excellent	N/A
bassium Nitrate	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
otassium Oxalate	N/A	N/A	N/A	N/A	N/A
otassium Permanganate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	A- Excellent
otassium Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
otassium Sulfide	A- Excellent	A- Excellent	A- Excellent	A- Excellent A- Excellent	B- Good N/A
opane (liquefied)	A- Excellent A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
opylene	N/A	N/A	A- Excellent	A- Excellent N/A	A- Excellent N/A
opylene Glycol	A- Excellent	N/A N/A	A- Excellent	N/A N/A	B- Good
vridine	C1- Fair	A- Excellent	A- Excellent	D- Severe Effect	B- Good B- Good
/rogallic Acid	N/A	N/A	N/A	A- Excellent	D- Severe Effect
esorcinal	D- Severe Effect	N/A N/A	N/A N/A	A- Excellent N/A	D- Severe Effect
osins	A1- Excellent	N/A N/A	N/A N/A	N/A N/A	B- Good
um	A- Excellent	N/A N/A	N/A N/A	N/A N/A	A- Excellent
ust Inhibitors	N/A	N/A N/A	N/A N/A	N/A N/A	A- Excellent
alad Dressings	A- Excellent	N/A N/A	N/A N/A	N/A N/A	A- Excellent
alicylic Acid	A1- Excellent	A- Excellent	N/A	A- Excellent	D- Severe Effect
alt Brine (NaCl saturated)	A- Excellent	N/A	A- Excellent	A- Excellent	N/A
ea Water	A2- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
hellac (Bleached)	A1- Excellent	N/A	N/A	N/A	A- Excellent
nellac (Orange)	A1- Excellent	N/A	N/A	N/A	A- Excellent
licone	A1- Excellent	N/A	A1- Excellent	A- Excellent	A- Excellent
liver Bromide	N/A	N/A	N/A	N/A	C- Fair
Iver Nitrate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
pap Solutions	A1- Excellent	N/A	A- Excellent	A1- Excellent	A- Excellent
oda Ash (see Sodium Carbonate)	B- Good	N/A	A- Excellent	A- Excellent	A- Excellent
odium Acetate	B1- Good	A- Excellent	A- Excellent	A- Excellent	B- Good
odium Aluminate	A1- Excellent	N/A	A- Excellent	N/A	B- Good
odium Benzoate	B1- Good	N/A	N/A	A2- Excellent	N/A
odium Bicarbonate	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
odium Bisulfate	A1- Excellent	N/A	A- Excellent	A- Excellent	B- Good
odium Bisulfite	C1- Fair	N/A	A- Excellent	A- Excellent	C- Fair
odium Borate (Borax)	A1- Excellent	N/A	A- Excellent	A- Excellent	N/A
odium Bromide	B1- Good	N/A	N/A	A2- Excellent	A- Excellent
odium Carbonate	B1- Good B1- Good	A- Excellent	A- Excellent	A- Excellent	A1- Excellent
odium Chlorate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	A- Excellent
odium Chloride	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A1- Excellent
	C- Fair	N/A			
odium Chromate	A1- Excellent	N/A N/A	A- Excellent A- Excellent	A- Excellent A- Excellent	D- Severe Effect A- Excellent
odium Cyanide	N/A	N/A N/A	A- Excellent N/A	A- Excellent	A- Excellent A- Excellent
odium Ferrocyanide	B- Good	N/A N/A	N/A N/A	A- Excellent A- Excellent	A- Excellent N/A
odium Fluoride	A- Excellent	N/A N/A	A- Excellent	A- Excellent N/A	N/A N/A
odium Hydrosuinte	A- Excellent	A- Excellent	A- Excellent		A- Excellent
odium Hydroxide (20%)	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent
odium Hydroxide (80%)	C- Fair	N/A	A- Excellent	A- Excellent	D- Severe Effect
bdium Hypochlorite (<20%)	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
odium Hypochlorite (100%)	D- Severe Effect	N/A	A- Excellent	A- Excellent	D- Severe Effect
odium Hypochionite (100%)	N/A	N/A N/A	A- Excellent N/A	A- Excellent N/A	N/A
odium Hyposuliate	A1- Excellent	N/A N/A	N/A N/A	A- Excellent	B- Good
odium Metaphosphate	N/A	N/A N/A	N/A N/A	A- Excellent N/A	D- Severe Effect
odium Nitrate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
odium Nitrate	B1- Good	A- Excellent N/A	A- Excellent N/A	A- Excellent N/A	A- Excellent B- Good
odium Peroxide	A1- Excellent	A- Excellent	N/A N/A	A- Excellent	D- Severe Effect
odium Peroxide odium Polyphosphate	A1- Excellent	A- Excellent N/A	N/A N/A	A- Excellent A- Excellent	D- Severe Effect B- Good
odium Silicate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	C- Fair
odium Silicate					B- Good
	A- Excellent	A- Excellent	A- Excellent	A- Excellent	
odium Sulfite	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
odium Sulfite odium Tetraborate	D- Severe Effect	A- Excellent	N/A	A- Excellent	N/A R. Good
	A- Excellent B- Good	N/A	N/A	N/A A- Excellent	B- Good
odium Thiosulfate (hypo)	B- Good	N/A	A- Excellent	A- Excellent	C1- Fair
orghum	A- Excellent	N/A	N/A	N/A	A- Excellent
by Sauce	A- Excellent	N/A	N/A	N/A	A- Excellent
annic Chloride	B1- Good	A- Excellent	A- Excellent	A- Excellent	C- Fair
annic Fluoborate	N/A	N/A	N/A	N/A	C- Fair
annous Chloride	C1- Fair	A- Excellent	A1- Excellent	A- Excellent	N/A
arch	A1- Excellent	A- Excellent	N/A	N/A	A- Excellent
earic Acid	A2- Excellent	N/A	N/A	A- Excellent	A- Excellent
oddard Solvent	A- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
yrene	A1- Excellent	A- Excellent	N/A	N/A	A- Excellent
ugar (Liquids)	A1- Excellent	N/A	N/A	N/A	A- Excellent
Sulfate (Liquors)	B1- Good	N/A	N/A	A- Excellent	D- Severe Effect

Chemical	CF	CP	LC	SV	DG
Sulfur Chloride	A1- Excellent	A- Excellent	N/A	A1- Excellent	D- Severe Effect
ulfur Dioxide	C1- Fair	A- Excellent	A- Excellent	A- Excellent	B- Good
ulfur Dioxide (dry)	B1- Good	N/A	A- Excellent	A- Excellent	B- Good
ulfur Hexafluoride	B- Good	A- Excellent	N/A	N/A	N/A
ulfur Trioxide	D- Severe Effect	A- Excellent	N/A	N/A	N/A
ulfur Trioxide (dry)	A1- Excellent	N/A	N/A	C1- Fair	D- Severe Effect
ulfuric Acid (<10%)	C1- Fair	B-Good	A- Excellent	A- Excellent	D- Severe Effect
ulfuric Acid (10-75%)	D- Severe Effect	C- Fair	A- Excellent	A- Excellent	D- Severe Effect
ulfuric Acid (75-100%)	D- Severe Effect	D- Severe Effect	A1- Excellent	A- Excellent	N/A
ulfuric Acid (cold concentrated)	D- Severe Effect	D- Severe Effect	A1- Excellent	A- Excellent	N/A
ulfuric Acid (hot concentrated)	D- Severe Effect	D- Severe Effect	D- Severe Effect	C- Fair	N/A
ulfurous Acid	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	C- Fair
ulfuryl Chloride	N/A	N/A	N/A	N/A	A- Excellent
allow	A1- Excellent	A- Excellent	N/A	N/A	A- Excellent
annic Acid	C1- Fair	A- Excellent	A- Excellent	B- Good	B- Good
anning Liquors	A1- Excellent	N/A	N/A	N/A	B- Good
artaric Acid	B2- Good	A- Excellent	A- Excellent	B- Good	B- Good
etrachloroethane	C1- Fair	N/A	N/A	A- Excellent	A- Excellent
etrachloroethylene	A1- Excellent	N/A	N/A	N/A	A- Excellent
etrahydrofuran	A- Excellent	A- Excellent	A- Excellent	B1- Good	A- Excellent
n Salts	N/A	N/A	N/A	A- Excellent	N/A
bluene (Toluol)	A1- Excellent	A- Excellent	A- Excellent	A1- Excellent	C1- Fair
omato Juice	A1- Excellent	N/A	A- Excellent	A- Excellent	B- Good
ichloroacetic Acid	C- Fair	N/A	A- Excellent	B- Good	N/A
ichloroethane	C1- Fair	N/A	N/A	A- Excellent	A- Excellent
ichloroethylene	C1- Fair	A- Excellent	A1- Excellent	B- Good	D- Severe Effect
richloropropane	N/A	N/A	N/A	N/A	A- Excellent
icresylphosphate	A2- Excellent	N/A	N/A	D- Severe Effect	C- Fair
iethylamine	A1- Excellent	N/A	A2- Excellent	A2- Excellent	D- Severe Effect
risodium Phosphate	A- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
urpentine	B- Good	A- Excellent	A- Excellent	A- Excellent	A2- Excellent
rea	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
ric Acid	A- Excellent	N/A	N/A	N/A	N/A
rine	B- Good	N/A	N/A	A- Excellent	A- Excellent
arnish	A- Excellent	A- Excellent	N/A	N/A	A- Excellent
egetable Juice	A- Excellent	N/A	N/A	N/A	A- Excellent
inegar	A- Excellent	A- Excellent	A- Excellent	B- Good	B- Good
inyl Acetate	N/A	N/A	N/A	A2- Excellent	N/A
inyl Chloride	A1- Excellent	N/A	N/A	B1- Good	N/A
/ater, Acid, Mine	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A1- Excellent
/ater, Deionized	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	N/A
/ater, Distilled	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
/ater, Fresh	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A2- Excellent
/ater. Salt	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
/eed Killers	A- Excellent	N/A	N/A	N/A	A- Excellent
hey	N/A	N/A N/A	N/A N/A	N/A N/A	A- Excellent
/hiskey & Wines	A1- Excellent	A- Excellent	N/A N/A	A- Excellent	A- Excellent
/hite Liquor (Pulp Mill)	A1- Excellent	A- Excellent	N/A N/A	A1- Excellent	D- Severe Effect
/hite Water (Paper Mill)	A I- Excellent A- Excellent	N/A	N/A N/A	N/A	B- Good
vlene	A- Excellent A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
,					C- Fair
inc Chloride	A- Excellent	A- Excellent	A- Excellent	A- Excellent	
inc Hydrosulfite	A- Excellent	N/A	A- Excellent	N/A	C- Fair
linc Sulfate	A- Excellent	A- Excellent	A- Excellent	A- Excellent	C- Fair

WARNING

WARNING The information in this chart has been supplied to Ideal-tek by other reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application. Ratings of chemical behavior listed in this chart apply at a 48-hr exposure period. Ideal-tek has no knowledge of possible effects beyond this period. Ideal-tek does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for

any purpose. DANGER

Variations in chemical behavior during handling due to factors such as temperature, pressure, and concentrations can cause equipment to fail, even though it passed an initial test. SERIOUS INJURY MAY RESULT Use suitable guards and/or personal protections when handling chemicals.