



Price List Fibre Lining

Kenapa perlu Pelapisan Fberglass ?

Selain berjenis waterproofing dengan cat bahan resin acrylic , ada pula jenis “**Komposit Coating**” atau pelapisan fiberglass. Seperti istilah penyebutannya, coating kedap air ini merupakan pelapisan yang memiliki metode aplikasi hampir mirip dengan metoda aplikasi cat tembok. Bedanya, jika cat tembok hanya dibagi menjadi dua jenis, yaitu cat indoor dan cat outdoor, komposit coating ini bisa pelapisan anti-kimia. Jadi, coating ini bukan hanya membuat sebuah objek menjadi tahan atau kedap terhadap air, tetapi mampu kedap terhadap berbagai kima ringan atau keras , seperti hydrochloric , sodium carbonate, sulfuric acid dan lain-lain.

Untuk aplikasi dimana ?

Pelapisan sangat cocok untuk digunakan pada permukaan tembok, dak beton, tangki baja / galvanis, bak air, lantai dasar, talang air dan pipa baja.

Kegunaan keistimewaan Pelapisan fiberglass:

- Memperbaiki retak pada permukaan supaya kedap air / kimia dan menjaga untuk selalu kering.
- Tahan terhadap cuaca dan sinar matahari, warna tidak pudar, tahan gesekan , daya lekat kuat , anti jamur dan mudah diaplikasi.
- Tersedia beraneka warna untuk memperindah permukaan dan bergaransi sehingga 5 - 10 tidak rembes.

Pelapisan Komposit Fiberglass : Kedap Air (PH 7)

Pelapisan Air	Tebal		
	3mm (Rp)	5mm (Rp)	8mm (Rp)
Epoxy lining			
Non Epoxy lining			

Bahan Pelapisan:

- 1) Orthophthalic grade polyester resin Yukalac 157 BQTN - Japan
- 2) A.Johnson chopped strand mat EMC 450 - Taiwan
- 3) Catalyst Mepoxe - Japan
- 4) Pigment Matapel Unipol - Japan
- 5) Gel coat G-123 T-EX - Japan
- 6) Epoxy resin EPR 174 - Japan (optional)
- 7) Hardener Versamid 140 - Japan (optional)

****Garansi** tidak rembes : 10 tahun Tidak bocor

Pelapisan Komposit Fiberglass : Kedap Kima (PH 0 - 6)

Pelapisan Kimia	Tebal		
	3mm (Rp)	5mm (Rp)	8mm (Rp)
Epoxy lining			
Non Epoxy lining			

Bahan Pelapisan:

- 1) Bisphenolic polyester resin Yukalac LP-1Q - EX - Japan
- 2) A.Johnson chopped strand mat EMC 450 - Taiwan
- 3) Catalyst Mepoxe - Japan
- 4) Pigment Matapel Unipol - Japan
- 5) Promoter Cobalt Naphthenate Co 6% Yukalic - Japan
- 6) Surfacing mat BMT 30 - Japan
- 7) Epoxy resin EPR 174 - Japan (optional)
- 8) Hardener Versamid 140 - Japan (optional)

****Garansi** tidak rembes : 5 tahun Tidak Bocor

Fibre Deluxe

Atap & Cladding Penerang

Fibre Gutter

Talang Air Tidak Berkarat

Fibre Tank

Tangki Air Kuat Dan Aman

Fibre Lining

Pelapisan Fibre Anti Korosif

Fibre Bak

Bak Fiberglass

Fibre Septic

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Chemical Resistance Resin

YUKALAC® UNSATURATED POLYESTER RESIN

LP - 1Q - EX

Yukalac® LP-1Q-EX is a bisphenolic polyester resin specially designed for excellent heat and chemical resistance used for FRP products.

Polyester resin based on Bisphenol -A is highly resistant to various chemicals such as high temperature inorganic acids, organic acids, chlorine bleaches, industrial gases, and other organic material.

For further information of 'corrosion guide', please contact PT. Justus Sakti Raya Corp.

PROPERTIES

Appearance	: yellow liquid
Viscosity (Poise, at 25°C)	: 4 - 5.5
* Gel Time (min. at 25°C)	: 20 - 30
High Temp. stability (min. at 120°C)	: > 90

FORMULATION

Resin	: 100	parts
Promoter P-EX	: 0.5	part
MEKPO	: 2	parts

TYPICAL PHYSICAL PROPERTIES OF CURED RESIN

Item	Unit	Cast cured 3 mm thick	Laminate	Test Method
Specific gravity	-	1.12	1.86	SHP Method
Curing shrinkage	%	7.0	-	SHP Method
Barcol hardness*	-	40	55 - 60	JIS K-6919
Flexural Strength	kg/mm ²	10.5	25 - 30	JIS K-7203
Flexural Modulus	kg/mm ²	350	1800-2000	JIS K-7203
Tensile strength	kg/mm ²	5.0	25 - 30	JIS K-7113
Compressive strength	kg/mm ²	18	30 - 35	ASTM D-695
Impact strength	kg-cm/cm ²	2.0	80	JIS K-6911
Elongation	%	1.3	-	JIS K-7113
Volume resistivity	ohm.cm	10 ¹⁵	-	ASTM D-257-58
Surface resistivity	ohm	10 ¹⁴	-	ASTM D-257-58
Dielectric constant	(1 Mhz)	2.7	-	ASTM D-150
Dielectric loss factor	(1 Mhz)	0.011	-	ASTM D-150
Dielectric Strength	KV/mm	18	-	ASTM D-150
Arc resistance	sec	100	-	ASTM D-495-58
Heat distortion temp.	°C	120	-	ASTM D-648-56
Water absorption				
25 °C, 24 hours	%	0.15	0.08	JIS K-6919
100 °C, 24 hours	%	0.50	-	JIS K-6919

Corrosion Resistance Guide

The list below shows values of chemical resistance and applicable temperature for most of the corrosion resistant resins. The list is based on the data obtained through the corrosion test of corrosion resistant FRP coupons according to ASTM C581. In the list, RT indicates room temperature and NR indicates not recommended.

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
A						
Acetaldehyde	100	NR	NR	NR	NR	NR
Acetic Acid	10	100	100	100	90	60
Acetic Acid	25	100	100	100	90	60
Acetic Acid	50	100	100	100	65	50
Acetic Acid	75	70	70	70	65	NR
Acetic Acid, Glacial	100	-	-	-	NR	NR
Acetic Anhydride	100	-	-	-	NR	NR
Acetone	10	-	85	-	-	NR
Acetone	100	NR	RT	NR	NR	NR
Acylic Acid	10	-	50	-	40	RT
Acrylic Acid	25	-	50	-	RT	RT
Acrylonitrile	100	NR	NR	NR	NR	NR
Alum	All	100	100	100	100	60
Aluminum Chloride	100	100	100	100	90	60
Aluminum Fluoride	All	RT	RT	RT	RT	RT
Aluminum Hydroxide	100	100	85	85	RT	NR
Aluminum Nitrate	100	85	85	85	60	60
Aluminum Potassium Sulfate	All	100	100	100	100	60
Aluminum Sulfate	All	100	100	100	100	60
Ammonium Bicarbonate	50	70	70	70	70	NR
Ammonium Carbonate	All	70	70	70	70	NR
Ammonium Chloride	All	100	100	100	100	60
Ammonium Citrate	All	70	70	70	80	NR
Ammonium Fluoride	All	-	-	-	50	NR
Ammonium Hydroxide	5	85	-	65	80	NR
Ammonium Hydroxide	10	85	-	65	65	NR
Ammonium Hydroxide	20	85	-	65	65	NR
Ammonium Hydroxide	29	70	70	70	40	NR
Ammonium Nitrate	All	85	85	85	85	60
Ammonium Persulfate	All	85	85	85	85	NR
Ammonium Phosphate, dibasic	All	100	100	100	RT	RT
Ammonium Phosphate, monobasic	All	100	100	100	RT	RT

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Ammonium Sulfate	All	100	100	100	60	50
Ammonium Thiocyanate	50	RT	RT	RT	RT	RT
Amyl Acetate	100	-	RT	-	NR	NR
Amyl Alcohol	All	50	100	85	50	NR
Aniline	100	NR	NR	NR	NR	NR
Aniline Sulfate	All	100	100	100	90	NR
B						
Barium Acetate	All	80	80	80	80	-
Barium Carbonate	All	100	100	100	90	NR
Barium Chloride	All	100	100	100	100	60
Barium Hydroxide	10	65	65	65	70	60
Barium Nitrate	All	-	-	-	100	-
Barium Sulfate	All	100	100	100	100	60
Barium Sulfide	All	80	80	80	-	-
Benzaldehyde	100	NR	RT	-	NR	NR
Benzene	100	NR	RT	RT	NR	RT
Benzene Sulfonic Acid	50	100	100	-	90	NR
Benzoic Acid	All	100	100	100	90	60
Benzyl Alcohol	All	NR	RT	NR	NR	NR
Benzyl Chloride	100	NR	RT	NR	NR	NR
Borax	100	100	100	100	100	60
Boric Acid	All	100	100	100	100	60
Brine	All	100	100	100	100	60
Bromine, Liquid	100	NR	NR	NR	NR	NR
Butyl Acetate	100	NR	RT	NR	RT	NR
Butyl Alcohol	All	50	50	50	NR	NR
Butyl CARBITOL Diethylene Glycol	100	NR	RT	NR	-	-
Butyl CELLOSOLVE Solvent	100	NR	50	NR	60	NR
Butyric Acid	25	100	100	100	100	50
Butyric Acid	50	100	100	100	100	RT
Butyric Acid	100	RT	50	RT	RT	NR
C						
Cadmium Chloride	All	85	85	85	-	-

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Calcium Bisulfite	All	80	80	80	80	40
Calcium Carbonate	All	85	85	85	90	60
Calcium Chlorate	All	100	100	100	90	NR
Calcium Chloride	All	100	100	100	90	60
Calcium Hydroxide	25	100	80	90	70	RT
Calcium Hydroxide	100	100	80	90	70	NR
Calcium Hypochlorite	All	70	70	70	50	NR
Calcium Nitrate	All	100	100	100	100	60
Calcium Sulfate	All	100	100	100	100	60
Calcium Sulfite	All	80	80	80	-	-
Caprylic Acid (See Octanoic Acid)	All	80	100	80	70	RT
Carbon Disulfide	100	NR	RT	NR	NR	NR
Carbon Tetrachloride	100	RT	50	RT	NR	RT
CARBOWAX Polyethylene Glycol	100	80	80	-	-	-
Cashew Nut Oil	100	60	80	-	-	-
Castor Oil	100	60	80	-	RT	-
Chlorine, Dry Gas	100	100	100	100	100	NR
Chlorine, Wet Gas	100	100	100	100	100	NR
Chlorine Dioxide	15	60	60	-	NR	NR
Chlorine Water		RT	80	-	RT	NR
Chloroacetic Acid	25	100	100	-	100	NR
Chloroacetic Acid	50	70	70	-	50	NR
Chloroacetic Acid	100	NR	NR	NR	NR	NR
Chlorobenzene	100	NR	50	NR	NR	NR
Chloroform	100	NR	NR	NR	NR	NR
Chlorosulfonic Acid	100	NR	NR	NR	NR	NR
Chromic Acid	5	100	100	-	RT	NR
Chromic Acid	20	70	70	70	NR	NR
Chromic Acid	30	NR	RT	NR	NR	NR
Chromium Sulfate	All	80	80	80	60	60
Citric Acid	All	100	100	100	100	60
Coconut Oil	All	80	80	80	60	-
Copper Chloride	All	100	100	100	90	60

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Copper Cyanide	All	100	100	100	90	NR
Copper Sulfate	All	100	100	100	90	50
Corn Oil	All	80	80	80	40	-
Corn Sugar	All	100	100	-	100	70
Cottonseed Oil	All	80	80	-	80	40
Crude Oil, Sour	100	100	100	-	100	60
Crude Oil, Sweet	100	100	100	-	100	-
Cyclohexane	100	50	50	50	NR	NR
D						
Deionized Water	100	100	100	100	RT	RT
Demineralized Water	100	100	100	100	-	40
Diallylphthalate	All	80	80	80	80	50
Di-ammonium Phosphate	65	100	100	100	-	-
Dibutyl Ether	100	RT	50	-	NR	NR
Dichlorobenzene	100	NR	50	NR	NR	NR
Dichloroethane	100	NR	RT	NR	NR	NR
Dichloroethylene	100	NR	RT	NR	NR	NR
Dichloromethane	100	NR	NR	NR	NR	NR
Diesel Fuel	100	80	80	-	-	60
Diethanol Amine	100	50	50	-	-	-
Diethyl Benzene	100	RT	50	RT	NR	NR
Diethylene Glycol	100	100	100	100	90	60
Diethylene Glycol n-butyl ether	100	RT	50	RT	-	-
Dimethyl Formamide	100	NR	NR	NR	NR	NR
Dimethyl Phthalate	100	70	85	70	70	NR
Dioxane	100	NR	NR	NR	NR	NR
Diphenyl Oxide	100	RT	50	-	-	-
Dipropylene Glycol	100	80	85	80	80	50
Distilled Water	100	100	100	100	90	60
Divinyl Benzene	100	RT	50	RT	NR	NR
Dodecyl Alcohol (Lauryl)	100	65	80	65	-	-
E						
Epichlorohydrin	100	NR	RT	-	NR	NR

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Epoxidized Soybean Oil	100	70	80	-	-	-
Ethanol	50	RT	RT	-	RT	RT
Ethanol	95	RT	RT	-	RT	NR
Ethanolamine	100	NR	NR	NR	NR	NR
Ethyl Acetate	100	NR	RT	NR	NR	NR
Ethyl Benzene	100	RT	50	RT	NR	NR
Ethylene Chlorohydrin	100	RT	RT	RT	RT	NR
Ethylene Glycol	All	100	100	100	100	60
Ethylene Glycol Monobutyl Ether	100	RT	RT	-	-	-
F						
Fatty Acids	All	100	100	100	100	60
Ferric Chloride	All	100	100	100	100	60
Ferric Nitrate	All	100	100	100	100	60
Ferric Sulfate	All	100	100	100	100	60
Ferrous Chloride	All	100	100	100	100	60
Ferrous Nitrate	All	100	100	100	100	60
Ferrous Sulfate	All	100	100	100	100	60
Fluoboric Acid	All	100	100	100	50	RT
Fluosilicic Acid	25	70	70	70	RT	RT
Formaldehyde	37	70	70	70	90	RT
Formic Acid	100	50	50	-	RT	NR
Fuel Oil	100	80	100	-	-	50
Furfural	100	NR	NR	NR	NR	NR
Furfuryl Alcohol	100	NR	RT	NR	RT	NR
G						
Gasoline	100	50	50	50	50	RT
Gluconic Acid	50	80	80	80	40	50
Glucose	100	100	100	100	40	60
Glycerine	100	100	100	100	100	60
Glycolic Acid (Hydroxy Acetic)	70	40	40	-	60	50
Glyoxal	40	40	40	-	40	-
H						
Heptane	100	100	100	100	60	60

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Hexane	100	70	70	70	RT	RT
Hydrazine	100	NR	NR	NR	NR	NR
Hydroiodic Acid	40	70	70	70	-	NR
Hydrobromic Acid	25	85	85	85	70	RT
Hydrobromic Acid	48	70	70	70	70	NR
Hydrochloric Acid	10	100	100	100	90	60
Hydrochloric Acid	15	100	100	100	90	60
Hydrochloric Acid	20	100	100	100	90	38
Hydrochloric Acid	37	70	85	85	50	RT
Hydrocyanic Acid	All	85	85	85	90	-
Hydrofluoric Acid	10	70	70	70	40	NR
Hydrofluoric Acid	15	50	50	50	40	NR
Hydrofluosilic Acid	25	70	70	70	40	NR
Hydrogen Peroxide	30	60	70	60	RT	-
Hydrogen Sulfide	5	100	100	100	100	-
Hypochlorous Acid	10	80	100	80	RT	RT
Hypochlorous Acid	20	70	70	70	RT	NR
I						
Isononyl Alcohol	All	85	85	-	85	NR
Isopropyl Myristate	100	85	85	85	85	60
Isopropyl Palmitate	100	85	85	85	85	60
J						
Jet Fuel (JP-4)	100	50	50	50	RT	60
K						
Kerosene	100	50	50	50	60	60
L						
Lactic Acid	All	100	100	100	90	50
Lauryl Alcohol	100	65	85	-	85	60
Lead Acetat	All	-	-	-	100	50
Linseed Oil	100	85	85	-	85	50
Lithium Bromide	All	100	100	100	100	70
Lithium Carbonate	All	70	50	-	80	NR
Lithium Hydroxide	All	70	50	-	65	NR

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
M						
Magnesium Carbonate	100	80	80	-	70	50
Magnesium Chloride	100	100	100	100	100	60
Magnesium Hydroxide	100	100	100	-	90	NR
Magnesium Nitrate	All	-	-	-	100	-
Magnesium Sulfate	All	100	100	100	100	60
Maleic Acid	100	100	100	-	90	40
Maleic Anhydride	100	-	-	-	105	-
Mercuric Chloride	All	100	100	100	100	60
Mercurous Chloride	All	100	100	100	100	60
Methanol	100	NR	RT	RT	NR	NR
Methylene Chloride	100	NR	NR	NR	NR	NR
Methyl Ethyl Ketone	100	NR	RT	NR	NR	NR
Methyl Methacrylate	100	NR	NR	NR	NR	NR
Methyl Styrene (Alpha)	100	RT	RT	-	NR	NR
Mineral Oils	100	100	100	-	100	60
Mineral Spirits	All	-	-	-	100	-
Monochlorobenzene	100	NR	RT	NR	NR	NR
Motor Oil	100	100	100	-	100	80
Myristic Acid	100	100	100	100	100	70
N						
Naphtha	100	80	100	-	65	65
Naphtha, Heavy Aromatic	100	RT	50	-	-	-
Naphthalene	100	100	100	-	NR	NR
Nickel Chloride	All	100	100	100	100	60
Nickel Nitrate	All	100	100	100	100	60
Nickel Sulfate	All	100	100	100	100	60
Nitric Acid	5	70	80	70	70	50
Nitric Acid	20	50	70	-	50	NR
Nitric Acid	40	NR	RT	-	NR	NR
Nitrobenzene	100	NR	RT	NR	NR	NR
O						
Octanoic Acid	100	80	100	80	70	40

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Oil, Sour Crude	100	100	100	-	90	60
Oil, Sweet Crude	100	100	100	-	90	60
Oleic Acid	All	100	100	100	100	50
Oleum (fuming sulfuric)		NR	NR	NR	NR	NR
Olive Oils	100	100	100	100	100	50
Oxalic Acid	All	100	100	100	90	60
P						
Palmitic Acid	100	100	100	100	100	70
Perchloroethylene	100	RT	50	-	RT	NR
Perchloric Acid	10	70	70	-	70	-
Perchloric Acid	30	40	40	-	-	-
Phenol	10	NR	RT	RT	RT	RT
Phenol	100	NR	NR	NR	NR	NR
Phosphoric Acid	85	100	100	100	100	65
Phosphoric Acid	100	100	100	100	90	65
Phosphorous Acid	70	RT	RT	-	-	-
Phthalic Acid	All	100	100	-	100	40
Phthalic Anhydride	100	-	-	-	105	50
Potassium Aluminum Sulfate	All	100	100	100	100	50
Potassium Bicarbonate	10	70	50	70	70	50
Potassium Bicarbonate	50	70	50	70	RT	40
Potassium Bisulfate	All	-	-	-	100	50
Potassium Bisulfite	All	-	-	-	100	-
Potassium Bromide	All	-	-	-	100	-
Potassium Carbonate	10	80	50	70	60	NR
Potassium Carbonate	25	80	50	70	60	NR
Potassium Carbonate	50	80	60	70	RT	NR
Potassium Chloride	All	100	100	100	100	60
Potassium Dichromate	All	100	100	100	100	NR
Potassium Ferricyanide	All	100	100	100	80	60
Potassium Ferrocyanide	All	100	100	100	100	60
Potassium Hydroxide	10	65	50	60	70	NR
Potassium Hydroxide	25	65	50	60	70	NR

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Potassium Hydroxide	45	85	60	80	RT	NR
Potassium Nitrate	All	100	100	100	100	60
Potassium Permanganate	All	100	100	100	100	NR
Potassium Persulfate	All	100	100	100	100	60
Potassium Sulfate	All	100	100	100	100	60
Propionic Acid	100	NR	40	-	NR	NR
Propylene Glycol	All	100	100	100	100	60
Pyridine	100	NR	RT	NR	NR	NR
S						
Selenious Acid	All	100	100	100	100	-
Silver Nitrate	All	100	100	100	100	60
Sodium Acetate	All	100	100	100	85	NR
Sodium Alkyl Aryl Sulfonates	All	50	80	-	50	50
Sodium Benzoate	100	80	80	-	80	-
Sodium Bicarbonate	10	70	70	70	80	50
Sodium Bicarbonate	30	70	70	70	60	40
Sodium Bisulfate	All	100	100	100	100	60
Sodium Bisulfite	All	100	100	100	100	RT
Sodium Borate	All	100	100	100	100	RT
Sodium Bromide	All	100	100	-	65	40
Sodium Carbonate	10	80	50	70	70	NR
Sodium Carbonate	25	80	50	70	70	NR
Sodium Carbonate	35	80	60	70	70	NR
Sodium Chlorate	50	100	100	-	100	50
Sodium Chloride	All	100	100	100	100	100
Sodium Chlorite	10	85	85	-	90	-
Sodium Chlorite	50	65	65	-	90	-
Sodium Chromate	All	100	100	-	80	-
Sodium Cyanide	All	85	-	-	80	NR
Sodium Dichromate	100	100	100	100	100	50
Sodium Dichromate	100	100	100	100	100	50
Sodium Di-phosphate	100	100	100	100	80	40
Sodium Dodecylbenzene-sulfonate		50	80	-	90	60

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Sodium Ferricyanide	All	100	100	100	100	60
Sodium Ferrocyanide	All	100	100	100	100	60
Sodium Fluoride	All	80	80	80	80	60
Sodium Fluoro Silicate	All	50	50	50	-	-
Sodium Hydrosulfide	All	100	100	100	90	60
Sodium Hydroxide	5	70	50	60	70	NR
Sodium Hydroxide	10	70	50	60	70	NR
Sodium Hydroxide	25	85	50	60	70	NR
Sodium Hydroxide	50	100	60	80	100	NR
Sodium Hypochlorite	5	<Decomp. 65	<Decomp. 65	-	65	50
Sodium Hypochlorite	10	<Decomp. 65	<Decomp. 65	-	65	NR
Sodium Hypochlorite	18	<Decomp. 65	<Decomp. 65	-	65	NR
Sodium Lauryl Sulfate	All	50	70	50	40	-
Sodium Nitrate	All	100	100	100	100	60
Sodium Nitrite	All	100	100	100	100	60
Sodium Silicate	All	100	100	-	100	40
Sodium Sulfate	All	100	100	100	100	60
Sodium Sulfide	All	100	100	-	100	NR
Sodium Sulfite	All	100	100	100	100	RT
Sodium Thiosulfate	All	50	80	-	RT	RT
Sodium Tripolyphosphate	All	100	100	100	90	RT
Sodium Xylene Sulfonate	All	100	100	-	90	RT
Soil Slurry, pH=4	100	-	-	-	-	38
Soil Slurry, pH=10	100	-	-	-	-	38
Sour Crude Oil	100	100	100	-	100	60
Soya Oil	100	100	100	-	100	50
Stannic Chloric	All	100	100	100	65	40
Stannous Chloride	All	100	100	100	100	40
Stearic Acid	All	100	100	100	100	65
Styrene	100	NR	50	NR	NR	NR
Sugar, Beet, Liquor		80	80	-	80	-
Sugar, Cane, Liquor & sweetwater	All	80	80	-	80	-
Sulfanilic Acid	All	100	100	100	70	40

Chemical Environment	% Concentration	Maximum Recommended Temperature, °C				
		R-802 804,806	H-600 610,630	S-510 (S-550)	LP-IQ	150HRN
Sulfonyl Chloride	All	NR	NR	NR	NR	NR
Sulfur Dioxide (dry or wet)		100	100	-	100	-
Sulfur Trioxide		100	100	100	100	NR
Sulfuric Acid	25-50	100	100	100	100	50
Sulfuric Acid	70	80	85	85	60	NR
Sulfuric Acid	75	RT	50	50	RT	NR
Sulfuric Acid	93	NR	NR	NR	NR	NR
Sulfuric Acid, Vapor		100	100	100	100	-
T						
Tannic Acid	All	100	100	100	90	65
Tartaric Acid	All	100	100	100	100	65
Tetrachloroethylene	100	RT	50	-	NR	NR
Thioglycolic Acid (Mercaptoacetic Acid)	All	NR	RT	NR	50	NR
Thionyl Chloride		NR	NR	NR	NR	NR
Toluene	100	NR	50	NR	NR	NR
Transformer Oils		100	100	100	100	RT
Tributyl Phosphate	100	50	50	50	-	NR
Trichloroacetic Acid	50	-	-	-	100	-
Trichloroacetic Acid	75	-	-	-	RT	-
Trichloroacetic Acid	100	-	-	-	NR	-
Trichloroethane	100	RT	RT	RT	NR	NR
Trichloroethylene	100	NR	RT	NR	NR	NR
Tricresyl Phosphate	100	RT	50	RT	-	-
Triethanolamine	100	50	50	-	70	50
Trisodium Phosphate	All	100	100	100	RT	RT
U						
Urea	38	-	-	-	-	RT
V						
Vinegar	100	100	100	100	RT	40
Vinyl Toluene	100	RT	RT	RT	NR	NR
W						
Water, Deionized	100	100	100	100	RT	RT
Water, Distilled	100	100	100	100	90	60