



Corrosion Resins Chemical Resistance Guide EMEA





Introduction to the use of this Corrosion Guide

The chemical resistant performance of DION® has been demonstrated in a variety of composite products over the past 30 - 40 years through successful use in hundreds of different chemical environments.

Practical experience has been supplemented by systematic evaluation of composites exposed to a large number of corrosive environments under controlled laboratory conditions. ASTM C 581 has been developed to assist in determining if there is deterioration of a thermoset resin when a laminate is immersed in a corrosive medium.

Long-term exposure and experience supports the data that has been obtained from laboratory tests carried out in accordance with ASTM C581 or EN 13121-2.

Factors such as laminate thickness, thermal conductivity, structural design performance and the effect of condensation must be taken into account when designing composite products for anticorrosion application. Effectiveness of the laminate in a given corrosion environment depends also on other factors like, but not only, its manufacturing, post curing and transport of the GRP.

Consistent with resin industry practices, the following advice does not represent any form of warranty for the use of GRP laminates based on its resins.

Polynt Group recommends to follow existing official norms for the design of the GRP equipment so as more in general the good manufacturing practice and the proper post-curing as indicated also by the International standards.

Forecast of service life of the GRP equipment falls under manufacturer and final user responsibilities and POLYNT advice cannot be interpreted as a warranty in any form. All products are intended for sale to knowledgeable industrial and commercial customers. Customers are required to inspect and test products before use and satisfy themselves as to the suitability for their specific end-use.

POLYNT products will meet their standard written specifications reported in the Technical Data Sheet, nothing contained in these guidelines shall constitute any other warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose, nor any protection from any law or patent to be inferred.

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The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall POLYNT be liable for any incidental or consequential damages.

This document overrules all its previous issues. POLYNT will continue this practice with updates and corrections of this document based on new findings or tests. It is then responsibility of the reader to be sure to hold the latest version.

Key

NR - Not recommended.

- 1 - DMA/BPO curing system is suggested.
- 2 - Double synthetic veil suggested in the inner layer.
- 3 - Double C-glass veil suggested in the inner layer.
- 4 - C-glass veil and 5 mm liner is suggested.
- 5 - DION 9100 is preferred.

EMEA Vinylester Corrosion Resins Product Family - typical properties

<i>Chemical Environment</i>	<i>Conc. %</i>	<i>DION® 9100 DION® 9100 PLUS DION® 9102 DION® 9300</i>	<i>DION® 9133</i>	<i>DION® 9400</i>	<i>DION® 9700</i>	<i>DION® 9800</i>
A						
Acetaldehyde	100	NR	NR	NR	NR	NR
Acetic Acid	0-25	100	100	100	100	100
	26-50	80	100	80	80	80
	51-75	60	60	60	60	60
Acetic Acid, Glacial	100	NR	NR	NR	NR	NR
Acetic Anhydride	100	NR	-	35	-	-
Acetone	10	80	80	80	80	NR
	100	NR	NR	NR	NR	NR
Acetonitrile	100	NR	NR	NR	NR	NR
Acetophenone	100	NR	NR	NR	NR	NR
Acetyl Chloride	100	NR	NR	NR	NR	NR
Acrylic Acid	0-25	35	40	40	45	35
Acrylic Latex	ALL	45	70	45	70	65
Acrylonitrile	100	NR	NR	NR	NR	NR
Acrylonitrile Latex	ALL	-	-	-	-	65
Adipic acid	ALL	80	-	80	-	-
Alkyl Benzene Sulfonic Acid	92	45	45	45	-	45
Alkyl Benzene C10-C12	100	65	65	-	-	65
Allyl Alcohol	100	NR	NR	NR	-	NR
Allyl Chloride	ALL	NR	NR	NR	-	NR
Alpha Methyl Styrene	100	NR	NR	NR	-	NR
Alpha Olefin Sulfates	100	45	45	45	45	45
Alum	ALL	100	100	100	100	100
Aluminum Chloride	ALL	100	100	100	100	100
Aluminum Chlorohydrate	ALL	100	100	100	100	100
Aluminum Chlorohydroxide	50	100	-	100	-	100
Aluminum Citrate	ALL	100	100	90	100	90
Aluminum Fluoride ²	ALL	25	25	25	25	40
Aluminum Hydroxide ²	ALL	80	80	70	80	70
Aluminum Nitrate	ALL	80	80	80	80	80
Aluminum Potassium Sulfate	ALL	100	100	100	100	90
Aluminum Sulfate	ALL	100	100	100	100	90
Amino Acids	ALL	35	35	35	-	35

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Ammonia, Liquified	ALL	NR	NR	NR	NR	NR
Ammonia, Aqueous	(See ammonium hydroxide)					
Ammonia (Dry Gas)	ALL	35	40	80	80	90
Ammonium Acetate	65	35	35	25	40	40
Ammonium Benzoate	ALL	80	80	80	80	80
Ammonium Bicarbonate	100	65	65	65	-	65
Ammonium Bisulfite (Black Liquor)	-	80	80	80	80	80
Ammonium Bromate	40	70	70	65	-	70
Ammonium Bromide	40	70	70	65	-	70
Ammonium Carbonate ²	ALL	65	65	65	65	65
Ammonium Chloride	ALL	100	100	100	100	100
Ammonium Citrate	ALL	70	70	60	70	70
Ammonium Fluoride ²	ALL	65	65	45	65	45
Ammonium Hydroxide ^{2,5} (Aqueous Ammonia)	1	90	90	100	100	90
	5	80	80	75	80	80
	10	65	65	75	75	60
	20	65	65	65	65	-
	29	35	35	35	35	35
Ammonium Lauryl Sulfate	30	45	45	45	45	45
Ammonium Ligno Sulfonate	50	70	80	80	-	70
Ammonium Nitrate	ALL	90	65	90	-	90
Ammonium Persulfate	ALL	80	100	80	80	80
Ammonium Phosphate (Mono or Di Basic)	ALL	100	100	80	100	80
Ammonium Sulfate	ALL	100	110	100	100	90
Ammonium Sulfide (Bisulfide)	ALL	45	45	40	45	40
Ammonium Sulfite	ALL	65	65	65	65	65
Ammonium Thiocyanate	20	100	100	90	-	100
	50	40	40	35	-	40
Ammonium Thiosulfate	60	35	40	35	40	35
Amyl Acetate	ALL	NR	35	35	NR	NR
Amyl Alcohol	ALL	45	60	90	80	65
Amyl Alcohol (Vapour)	-	65	70	65	100	80
Amyl Chloride	ALL	45	45	45	50	-

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Aniline	ALL	NR	NR	NR	NR	NR
Aniline Hydrochloride	ALL	80	80	80	-	80
Aniline Sulfate	Sat'd	100	100	100	100	90
Aqua Regia (3:1 HCl-HNO ₃)	ALL	NR	NR	NR	NR	NR
Arsenic Acid	80	35	40	35	-	40
Arsenious Acid	20	80	80	80	80	80
B						
Barium Acetate	ALL	80	80	80	80	-
Barium Bromide	ALL	80	100	100	-	80
Barium Carbonate ²	ALL	100	80	100	-	90
Barium Chloride	ALL	100	100	100	100	90
Barium Cyanide	ALL	65	65	65	-	-
Barium Hydroxide ²	ALL	65	65	65	-	70
Barium Sulfate	ALL	100	100	100	80	90
Barium Sulfide	ALL	80	80	80	80	80
Beer	-	50	50	-	-	-
Beet Sugar Liquor	ALL	80	80	80	-	80
Benzaldehyde	100	NR	NR	NR	-	NR
Benzene	100	NR	NR	NR	NR	NR
Benzene, HCl (wet)	ALL	NR	NR	NR	-	NR
Benzene Sulfonic Acid	ALL	-	65	65	65	90
Benzene (Vapour)	ALL	NR	NR	NR	-	NR
Benzoic Acid	ALL	100	100	100	100	90
Benzoquinones	ALL	65	70	80	80	80
Benzyl Alcohol	ALL	NR	NR	NR	NR	40
Benzyl Chloride	ALL	NR	NR	NR	-	NR
Biodiesel Fuel	ALL	80	-	80	-	80
Black Liquor (pulp mill)	ALL	80	80	70	-	90
Bleach Solutions	Calcium Hypochlorite ^{1,2,5}	ALL	80	80	-	90
	Chlorine Dioxide ^{1,2,5}	-	70	70	80	70
	Chlorine Water ^{1,2,5}	ALL	80	80	100	90
	Chlorite	50	40	40	-	-
	Hydrosulfite	-	80	80	80	-
	Sodium Hypochlorite ^{1,2,5}	15	50	60	50	50

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Borax	ALL	100	100	100	100	90
Boric Acid	ALL	100	100	100	100	90
Brake Fluid	-	40	40	40	-	40
Brine, Salt	ALL	100	100	100	100	100
Bromine	Liquid	NR	NR	NR	NR	NR
Bromine Gas	100	35	35	35	-	-
Bromine Water	5	80	-	80	-	80
Brown Stock (pulp mill)	-	80	80	80	-	80
Bunker C Fuel Oil	100	100	100	100	100	90
Butanediol-1,2	ALL	80	-	80	-	-
Butanediol-1,3	ALL	80	-	80	-	-
Butanediol-1,4	ALL	80	-	80	-	-
Butanol	ALL	45	45	45	-	45
Butanol, Tertiary	ALL	-	NR	-	-	NR
Butyl Acetate	100	NR	20	25	NR	NR
Butyl Acrylate	100	NR	NR	25	-	NR
Butyl Amine	ALL	NR	NR	NR	NR	NR
Butyl Benzoate	100	-	-	35	-	-
Butyl Benzyl Phthalate	100	80	80	80	65	80
Butyl Carbitol	80	35	-	35	40	-
Butyl Cellosolve	100	35	40	35	40	35
Butylene Glycol	100	70	80	80	80	80
Butylene Oxide	100	NR	NR	NR	NR	NR
Butyraldehyde	100	NR	NR	35	NR	NR
Butyric Acid	50	100	100	80	100	100
	85	25	35	40	-	40
C						
Cadmium Chloride	ALL	80	80	80	80	85
Calcium Bisulfite	ALL	80	80	80	80	80
Calcium Bromide	ALL	90	90	100	-	85
Calcium Carbonate ²	ALL	80	80	80	90	90
Calcium Chlorate ²	ALL	100	100	100	100	90
Calcium Chloride	Sat'd	100	110	100	100	100
Calcium Hydroxide ²	ALL	80	80	45	100	70

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Calcium Hypochlorite ^{1,2,5}	ALL	80	80	80	-	90
Calcium Nitrate	ALL	100	100	100	100	90
Calcium Sulfate	ALL	100	100	100	100	90
Calcium Sulfite	ALL	80	80	85	80	80
Cane Sugar Liquor / Sweet Water	ALL	80	80	80	-	80
Capric Acid	ALL	80	80	40	-	80
Caprolactam	≤50	40	-	40	-	-
Caprylic Acid (Octanoic Acid)	ALL	80	90	80	100	70
Carbon Dioxide Gas	-	100	-	145	-	90
Carbon Disulfide	100	NR	NR	NR	NR	NR
Carbon Monoxide Gas	-	100	-	145	-	90
Carbon Tetrachloride	100	35	50	35	65	35
Carbowax	100	40	45	50	-	-
Carbowax Polyethylene Glycols	ALL	65	70	80	-	80
Carboxyethyl Cellulose	10	70	65	80	-	65
Carboxymethyl Cellulose	ALL	70	45	70	-	65
Cashew Nut Oil	ALL	-	60	-	-	90
Castor Oil	ALL	70	70	70	50	70
Chlorinated Lime	-	60	-	40	-	-
Chlorinated Pulp	-	80	80	80	-	80
Chlorination Washer Hoods/Ducts	-	80	80	80	-	80
Chlorinated Waxes	ALL	80	80	80	80	70
Chlorine (liquid)	100	NR	NR	NR	NR	NR
Chlorine Dioxide ^{1,2,5}	-	70	70	70	80	70
Chlorine Gas (wet or dry) ⁴	-	100	100	100	100	90
Chlorine Water ^{1,2,5}	ALL	80	80	80	100	90
Chloroacetic Acid	25	80	40	80	-	-
	50	35	35	35	-	60
	80	25	25	25	-	-
	100	NR	NR	NR	NR	-
Chlorobenzene	100	NR	NR	NR	-	NR
Chloroethylene (1,1,1-trichloroethylene)	-	NR	-	NR	-	NR
Chloroform	100	NR	NR	NR	NR	NR
Chloropyridine	100	NR	NR	NR	-	NR

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Chlorosulfonic Acid	ALL	NR	NR	NR	NR	NR
Chlorotoluene	100	NR	NR	NR	-	NR
Chromic Acid	5	40	50	40	45	40
	20	NR	40	NR	45	NR
Chromium Sulfate	ALL	65	80	65	80	60
Chromous Sulfate	ALL	80	80	65	80	60
Citric Acid	ALL	100	100	105	100	90
Cobalt Chloride	ALL	80	80	80	-	80
Cobalt Citrate	ALL	80	80	80	-	80
Cobalt Naphthenate	ALL	65	65	65	-	65
Cobalt Nitrate	15	45	80	45	-	80
Cobalt Octoate	ALL	65	65	65	-	65
Coconut Oil	ALL	100	90	80	100	90
Copper Acetate	ALL	100	100	80	100	80
Copper Chloride	ALL	100	100	100	100	90
Copper Cyanide	ALL	100	100	100	100	90
Copper Fluoride ²	ALL	100	-	-	100	-
Copper Nitrate	ALL	100	100	100	100	90
Copper Sulfate	ALL	100	110	100	100	90
Corn Oil	ALL	90	90	90	-	90
Corn Starch	ALL	100	100	100	-	90
Corn Sugar	ALL	100	80	100	-	90
Cottonseed Oil	ALL	100	100	90	-	90
Creslyc Acids	ALL	NR	NR	NR	NR	NR
Cresol	10	NR	-	NR	-	NR
Crude Oil, Sour or Sweet	100	100	110	100	100	90
Cyclohexane	100	45	65	65	65	NR
Cyclohexanol	-	40	-	40	-	-
Cyclohexanone	100	NR	NR	NR	50	NR
D						
Decane / Decene	ALL	80	-	80	-	-
Decanol	100	45	65	80	-	65
Dechlorinated Brine Storage	ALL	80	80	80	80	-
Deionized Water	ALL	-	80	-	90	90

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Demineralized Water	ALL	-	80	-	90	90
Detergents, Organic	100	70	70	70	-	70
Detergents, Sulfonated	ALL	90	90	80	90	90
Diallylphthalate	ALL	80	90	80	-	100
Diammonium Phosphate	65	100	100	100	100	80
Dibromophenol	-	NR	NR	NR	-	NR
Dibromopropanol	ALL	NR	NR	NR	-	NR
Dibutyl Ether	100	NR	45	40	50	NR
Dibutylphthalate	100	80	80	90	80	80
Dibutyl Sebacate	ALL	90	65	90	-	90
Dichlorobenzene	100	NR	25	NR	40	NR
Dichloroethane	100	NR	NR	NR	NR	NR
Dichloroethylene	100	NR	NR	NR	NR	NR
Dichloromethane (Methylene Chloride)	100	NR	NR	NR	NR	NR
Dichloropropane	100	NR	NR	NR	-	NR
Dichloropropene	100	NR	NR	NR	-	NR
Dichloropropionic Acid	100	NR	NR	NR	-	NR
Diesel Fuel	ALL	80	100	80	90	80
Diethanolamine	100	25	45	40	50	40
Diethyl Amine	100	NR	NR	NR	NR	NR
Diethyl Ether (Ethyl Ether)	100	NR	NR	NR	NR	NR
Diethyl Aniline-N,N	-	-	-	40	-	-
Diethyl Formamide	100	NR	NR	NR	-	NR
Diethyl Ketone	100	NR	NR	NR	-	NR
Diethyl Maleate	100	NR	NR	NR	-	NR
Di 2-Ethyl Hexyl Phosphate	100	-	70	-	-	90
Diethylenetriamine (DETA)	100	NR	NR	NR	-	NR
Diethylene Glycol	100	90	90	90	90	90
Diisobutyl Ketone	100	NR	25	40	-	NR
Diisobutyl Phthalate	100	45	65	45	-	80
Diisobuthylene	100	35	40	35	-	NR
Diisopropanolamine	100	40	45	45	-	35
Dimethyl Aniline-N,N	-	-	-	40	-	-
Dimethyl Formamide	100	NR	NR	NR	-	NR

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Dimethyl Phthalate	100	65	75	65	80	65
Diocetyl Phthalate	100	80	90	80	80	80
Dioxane	100	NR	NR	NR	-	NR
Diphenyl Ether	100	25	40	35	50	45
Dipiperazine Sulfate Solution	ALL	-	27	-	-	35
Dipropylene Glycol	ALL	90	90	90	-	90
Distilled Water	ALL	-	80	-	80	90
Divinyl Benzene	100	NR	NR	NR	-	NR
E						
Embalming Fluid	ALL	40	40	40	-	40
Epichlorohydrin	100	NR	NR	NR	NR	NR
Epoxidized Soybean Oil	ALL	65	65	65	-	90
Esters of Fatty Acids	100	80	80	80	80	80
Ethanolamine	100	NR	NR	25	-	NR
Ethyl Acetate	100	NR	NR	NR	NR	NR
Ethyl Acrylate	100	NR	NR	NR	NR	NR
Ethyl Alcohol (Ethanol)	10	45	60	65	65	60
	50	35	40	65	-	35
	95-100	25	25	25	-	25
Ethyl Benzene	100	NR	NR	NR	-	NR
Ethyl Benzene / Benzene Blends	100	NR	NR	NR	-	NR
Ethyl Bromide	100	NR	NR	NR	-	NR
Ethyl Chloride	100	NR	NR	NR	-	NR
Ethyl Ether (Diethyl Ether)	100	NR	NR	NR	-	NR
Ethylene Chloride	100	NR	NR	NR	-	NR
Ethylene Chloroformate	100	NR	NR	NR	-	NR
Ethylene Chlorohydrin	100	35	40	35	40	40
Ethylene Diamine	100	NR	NR	NR	-	NR
Ethylene Dibromide	ALL	NR	NR	NR	NR	NR
Ethylene Dichloride	100	NR	NR	NR	-	NR
Ethylene Glycol	ALL	90	100	100	100	90
Ethylene Glycol Monobutyl Ether	100	35	40	35	-	35
Ethylene Diamine Tetra Acetic Acid	100	35	40	35	-	40

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Ethylene Oxide	100	NR	NR	NR	-	NR
Eucalyptus Oil	100	60	60	60	-	60
F						
Fatty Acids	ALL	100	110	90	100	90
Ferric Acetate	ALL	80	80	80	-	80
Ferric Chloride	ALL	100	100	100	100	90
Ferric Nitrate	ALL	100	100	100	100	90
Ferric Sulfate	ALL	100	100	100	100	90
Ferrous Chloride	ALL	100	100	100	100	90
Ferrous Nitrate	ALL	100	100	100	100	90
Ferrous Sulfate	ALL	100	100	100	100	90
Fertilizer, 8,8,8	-	45	50	45	50	40
Fertilizer, URAN	-	45	50	45	50	40
Fluoboric Acid ²	10	100	110	80	100	80
	15	60	80	100	-	-
Fluoride Salts & HCl ²	30:10	50	50	50	-	45
Fluosilicic Acid ²	10	65	65	45	65	65
	35	35	40	35	40	35
	Fumes	80	80	80	-	80
Fly Ash Slurry	-	-	80	-	-	80
Formaldehyde	ALL	65	65	40	65	40
Formic Acid	10	80	80	80	65	65
	50	35	40	35	40	40
	85	-	25	35	-	-
Freon	100	-	-	NR	-	NR
Fuel Oil	100	100	100	100	90	100
Furfural	10	35	45	35	50	40
	50-100	NR	NR	NR	-	NR
G						
Galactose	ALL	100	-	100	-	-
Gallic Acid	Sat'd	35	40	35	-	35
Gasoline Regular Leaded	100	45	45	45	-	-
Gasoline, Regular Unleaded	100	40	35	35	-	40

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Gasoline, Alcohol Containing	100	40	-	40	-	40
Gluconic Acid	50	70	80	70	80	70
Glucose	ALL	100	100	100	100	80
Glutaric Acid	50	45	50	45	-	45
Glycerine	100	100	100	100	-	100
Glycolic Acid (Hydroxyacetic Acid)	10	80	90	90	90	-
	35	60	60	60	65	60
	70	25	40	35	40	-
Glyoxal	40	35	40	35	-	40
Green Liqour (pulp mill)	-	80	80	80	90	90
H						
Heptane	100	90	100	90	100	90
Heptane	100	80	-	80	-	-
Hexachlorocyclopentadiene	100	-	45	40	-	40
Hexamethylenetetramine	65	-	45	50	-	40
Hexane	100	65	65	65	65	60
Hydraulic Fluid	100	65	80	65	80	65
Hydrazine	100	NR	NR	NR	-	NR
Hydrobromic Acid	18	80	80	80	90	90
	48	65	65	65	80	65
Hydrochloric Acid ^{3,4}	10	100	110	100	100	90
	15	100	100	100	100	90
	25	70	70	70	70	65
	37	40	45	40	60	40
Hydrochloric Acid & Organics	-	NR	NR	NR	-	NR
Hydrocynic Acid	10	80	80	90	80	90
Hydrofluoric Acid ²	1	50	50	50	65	50
	10	35	50	35	65	35
	20	35	40	35	40	35
Hydrofluosilicic Acid ²	10	80	65	70	65	65
	35	35	40	35	40	40
Hydrogen Bromide, gas	ALL	80	80	65	80	-
Hydrogen Chloride, dry gas	100	100	110	100	100	80

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Hydrogen Fluoride, gas ²	ALL	65	65	65	80	65
Hydrogen Peroxide (storage)	5	65	65	65	65	65
	30	35	40	35	40	65
Hydrogen Sulfide, gas	ALL	100	100	100	100	90
Hydroiodic Acid	10	65	-	65	65	-
Hypophosphorus Acid	50	45	50	45	-	-
I						
Iodine, Solid	ALL	65	65	60	65	65
Isoamyl Alcohol	100	45	45	45	-	45
Isobutyl Alcohol	ALL	45	45	45	-	50
Isodecanol	ALL	45	65	80	-	65
Isononyl Alcohol	100	-	60	60	-	50
Isooctyl Adipate	100	50	50	55	-	80
Isooctyl Alcohol	100	-	60	60	-	35
Isopropyl Alcohol	ALL	45	50	45	50	40
Isopropyl Amine	ALL	35	40	45	50	-
Isopropyl Myristate	ALL	90	90	90	-	90
Isopropyl Palmitate	ALL	90	100	90	100	90
Itaconic Acid	ALL	45	50	45	-	50
J						
Jet Fuel	-	80	80	80	80	80
Jojoba Oil	100	80	80	80	-	80
K						
Kerosene	100	80	80	80	80	80
L						
Lactic Acid	ALL	100	100	100	100	90
Latex	ALL	45	50	65	50	65
Lauric Acid	ALL	100	100	100	-	90
Lauryl Alcohol	100	65	70	80	-	70
Lauryl Mercaptan	ALL	-	65	65	-	65
Lead Acetate	ALL	100	110	100	100	90
Lead Chloride	ALL	90	110	105	-	90
Lead Nitrate	ALL	100	110	90	100	90

For further information please contact us

<i>Chemical Environment</i>	<i>Conc. %</i>	<i>DION® 9100 DION® 9100 PLUS DION® 9102 DION® 9300</i>	<i>DION® 9133</i>	<i>DION® 9400</i>	<i>DION® 9700</i>	<i>DION® 9800</i>
Levulinic Acid	ALL	100	110	105	100	90
Lime Slurry	ALL	80	80	75	100	-
Linseed Oil	ALL	100	110	100	100	90
Lithium Bromide	ALL	100	110	105	100	90
Lithium Carbonate ²	ALL	-	65	65	-	-
Lithium Chloride	ALL	100	100	100	100	90
Lithium Sulfate	ALL	100	100	100	100	-
M						
Magnesium Bicarbonate	ALL	80	80	80	90	75
Magnesium Bisulfite	ALL	80	80	80	80	80
Magnesium Carbonate	15	80	80	80	90	80
Magnesium Chloride	ALL	100	110	100	100	90
Magnesium Hydroxide	ALL	100	100	100	100	90
Magnesium Nitrate	ALL	100	100	100	100	-
Magnesium Silica Floride	37.5	-	-	60	-	60
Magnesium Sulfate	ALL	100	110	105	100	90
Maleic Acid	ALL	90	110	100	-	90
Maleic Anhydride	100	90	100	100	100	90
Manganese Chloride	ALL	100	100	90	-	90
Manganese Sulfate	ALL	100	100	105	-	90
Mannitol	ALL	100	-	100	-	-
Mannose	ALL	100	-	100	-	-
Mercuric Chloride	ALL	100	100	90	100	90
Mercurous Chloride	ALL	100	100	90	100	90
Mercury	-	100	110	90	100	90
Methyl Alcohol (Methanol)	100	25	NR	25	25	25
Methyl Bromide (gas)	10	NR	-	NR	-	NR
Methyl Ethyl Ketone	ALL	NR	NR	NR	NR	NR
Methyl Isobutyl Ketone	100	NR	NR	NR	-	NR
Methyl Methacrylate	ALL	NR	NR	NR	-	NR
Methyl Styrene	100	NR	NR	NR	-	NR
Methyl tert-Butyl Ether (MTBE)	ALL	80	-	80	-	80
Methylene Chloride	100	NR	NR	NR	NR	NR

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<i>Chemical Environment</i>	<i>Conc. %</i>	<i>DION® 9100 DION® 9100 PLUS DION® 9102 DION® 9300</i>	<i>DION® 9133</i>	<i>DION® 9400</i>	<i>DION® 9700</i>	<i>DION® 9800</i>
Mineral Oils	100	100	110	100	100	90
Molasses and Invert Molasses	ALL	-	45	40	-	40
Molybdenum Disulfide	ALL	90	-	-	90	-
Molybdic Acid	25	-	65	65	-	65
Monochloroacetic Acid	50	35	35	40	-	-
	80	NR	-	NR	-	NR
Monochlorobenzene	100	NR	NR	NR	NR	NR
Monoethanolamine	100	25	NR	NR	-	NR
Monomethylhydrazine	100	NR	NR	NR	-	NR
Morpholine	100	NR	NR	NR	-	NR
Motor Oil	100	80	110	80	100	80
Mustard	ALL	100	-	-	-	-
Myristic Acid	ALL	100	100	100	-	90
N						
Naphta, Aliphatic	100	80	90	90	-	65
Naphta, Aromatic	100	-	45	45	-	40
Naphtalene	ALL	80	90	90	90	-
Neopentyl Glycol	ALL	80	-	80	-	-
Nickel Chloride	ALL	100	100	100	100	90
Nickel Nitrate	ALL	100	100	100	100	90
Nickel Sulfate	ALL	100	100	100	100	90
Nicotinic acid (Niacin)	ALL	-	-	-	-	40
Nitric Acid	2	70	80	80	-	90
	5	80	70	65	-	80
	15	50	50	55	-	-
	35	45	30	40	-	-
	50	NR	NR	25	NR	-
	Fumes	80	80	80	80	-
Nitrobenzene	100	NR	NR	NR	-	NR
Nitrogen Tetroxide	100	NR	NR	NR	-	NR
Nonane/Nonene	ALL	80	-	80	-	-
O						
Octane/Octene	ALL	80	-	80	-	-
Octanic Acid (Caprylic Acid)	ALL	80	90	90	100	-

For further information please contact us

<i>Chemical Environment</i>	<i>Conc. %</i>	<i>DION® 9100 DION® 9100 PLUS DION® 9102 DION® 9300</i>	<i>DION® 9133</i>	<i>DION® 9400</i>	<i>DION® 9700</i>	<i>DION® 9800</i>
Octylamine, Tertiary	100	-	45	40		40
Oil, Sweet or Sour Crude	100	100	110	80	100	90
Oleic Acid	ALL	100	100	90	100	90
Oleum (Fuming Sulfuric Acid)	-	NR	NR	NR	NR	NR
Olive Oil	100	100	110	100	100	90
Orange Oil (Limonene)	100	100	100	100	-	90
Organic Detergents, pH<12	ALL	60	70	65	-	65
Oxalic Acid	100	100	100	100	-	90
Ozone (<4 ppm in water phase)	-	25	25	-	-	25
P						
Palm Oil	100	100	80	100	-	90
Palmitic Acid	100	100	100	100	-	90
Paper Mill Effluent (typical)	100	-	-	-	-	65
Paraffin Wax	-	100	-	100	-	-
Pentasodium Tripoly Phosphate	10	90	90	90	90	90
Perchloroethylene	100	35	40	40	40	40
Perchloric Acid	10	65	65	65	65	-
	30	35	35	35	35	-
Phenol (Carbolic Acid)	5	NR	NR	NR	NR	NR
	>5	NR	NR	NR	NR	NR
Phenol Formaldehyde Resin	ALL	35	45	45	-	45
Phosphoric Acid	80	100	100	100	100	90
Phosphoric Acid Vapour & Condensate	-	100	100	105	120	80
Phosphorous Trichloride	-	NR	NR	NR	NR	NR
Phthalic Acid	100	100	100	100	100	90
Phthalic Anhydride	100	100	100	100	100	90
Picric Acid (Alcoholic)	10	NR	NR	40	-	40
Pine Oil	100	65	65	65	-	65
Pine Oil Disinfectant	ALL	-	-	-	-	45
Piperazine Monohydrochloride	-	-	-	-	-	40
Plating Solutions, Cadmium Cyanide	-	90	80	100	-	90
Plating Solutions, Chrome	-	45	50	55	-	55

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Plating Solutions, Gold	-	40	40	100	-	90
Plating Solutions, Lead	-	80	90	100	-	90
Plating Solutions, Nickel	-	80	80	100	80	90
Plating Solutions, Platinum	-	80	80	80	-	80
Plating Solutions, Silver	-	80	90	100	-	90
Plating Solutions, Tin Fluoborate	-	90	90	100	90	90
Plating Solutions, Zinc Fluoborate	-	80	80	90	90	90
Polyphosphoric Acid (115%)	-	100	100	100	-	90
Polyvinyl Acetate Adhesive	ALL	-	40	45	-	45
Polyvinyl Acetate Emulsion	ALL	45	60	60	60	65
Polyvinyl Alcohol	ALL	45	45	45	45	65
Potassium Aluminium Sulfate	ALL	100	105	105	120	90
Potassium Amyl Xanthate	5	-	-	65	-	65
Potassium Bicarbonate ²	10	65	65	65	70	70
	50	60	60	60	70	60
Potassium Bromide	ALL	100	90	90	100	90
Potassium Carbonate ²	10	65	65	65	70	65
	50	60	60		65	40
Potassium Chloride	ALL	100	100	100	100	90
Potassium Dichromate	ALL	100	100	100	100	90
Potassium Ferricyanide	ALL	100	100	100	100	90
Potassium Ferrocyanide	ALL	100	100	100	100	90
Potassium Fluoride ²	ALL	60	-	60	-	-
Potassium Hydroxide ^{2,5}	10	65	65	65	-	65
	25	40	40	40	60	40
Potassium Iodide	ALL	-	65	65	-	65
Pottassium Nitrate	ALL	100	100	100	100	90
Potassium Permanganate	ALL	100	100	100	100	90
Potassium Persulfate	ALL	100	100	100	100	90
Potassium Pyrophosphate	60	-	65	65	-	65
Potassium Sulfate	ALL	100	100	90	100	90
Propionic Acid	20	90	90	90	90	90
	50	80	80	80	80	80
Propyl Alcohol (Propanol)	20	60	60	60	60	-

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Propylene Glycol	ALL	100	100	100	100	90
Isopropyl Palmitate	ALL	-	90	100	-	90
Pyridine	100	NR	NR	NR	-	NR
Q						
Quaternary Ammonium Salts	ALL	-	65	65	-	65
R						
Rayon Spin Bath	-	-	65	60	65	65
S						
Salicylic Acid	ALL	60	65	65	-	65
Sea Water	-	100	80	100	90	100
Sebacic Acid	ALL	100	100	100	100	-
Selenious Acid	ALL	100	80	80	100	80
Silicic Acid (Hydrated Silica)	ALL	105	105	90	-	-
Silver Cyanide	ALL	90	90	90	-	90
Silver Nitrate	ALL	100	100	100	100	90
Sodium Acetate	ALL	100	100	100	100	90
Sodium Alkyl Aryl Sulfonates	ALL	80	80	80	-	90
Sodium Aluminate	ALL	45	45	45	-	65
Sodium Benzoate	ALL	80	80	80	100	80
Sodium Bicarbonate ²	ALL	80	80	65	80	80
Sodium Bichromate	100	100	-	-	-	-
Sodium Bifluoride ²	100	45	-	45	50	45
Sodium Bisulfate	ALL	100	100	100	100	90
Sodium Bisulfite	ALL	100	-	100	-	90
Sodium Borate	ALL	100	100	100	100	90
Sodium Bromate	5	-	40	40	-	40
Sodium Bromide	ALL	100	100	90	100	90
Sodium Carbonate (Soda Ash) ²	10	80	80	65	80	80
	35	70	70	65	80	70
Sodium Chlorate	ALL	100	100	100	100	90
Sodium Chloride	ALL	100	100	100	100	90
Sodium Chlorite	10	70	70	70	65	70
	50	40	45	45	-	-
Sodium Chromate	50	100	100	100	100	90

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Sodium Cyanide	5	100	100	100	100	90
	15	65	65	65	65	65
Sodium Dichromate	ALL	100	100	100	100	90
Sodium Diphosphate	100	100	100	90	100	80
Sodium Dodecyl Benzene Sulfonate	ALL	-	-	-	-	90
Sodium Ethyl Xanthate	5	65	65	65	-	65
Sodium Ferricyanide	ALL	100	100	100	100	90
Sodium Ferrocyanide	ALL	100	100	100	100	90
Sodium Fluoride ²	ALL	80	80	80	80	80
Sodium Fluorosilicate ²	ALL	45	45	45	65	45
Sodium Hexametaphosphate	10	65	65	65	-	65
Sodium Hydrosulfide	20	70	80	80	80	80
Sodium Hydroxide ^{2,5}	1	65	65	60	-	90
	5	65	65	60	-	65
	10	65	65	60	-	65
	25	65	65	60	-	65
	50	90	90	80	-	90
Sodium Hypochlorite ^{1,2,5}	15	50	50	50	50	50
Sodium Hyposulfite	20	70	70	80	80	-
Sodium Lauryl Sulfate	ALL	80	80	70	80	70
Sodium Monophosphate	ALL	100	100	100	100	90
Sodium Nitrate	ALL	100	100	100	100	90
Sodium Nitrite	ALL	100	100	100	100	90
Sodium Oxalate	ALL	80	80	90	-	80
Sodium Persulfate	20	55	55	-	55	90
Sodium Polyacrylate	ALL	65	65	65	-	65
Sodium Silicate, pH<12	100	100	100	100	100	90
Sodium Silicate, pH>12	100	100	100	100	100	90
Sodium Sulfate	ALL	100	100	100	100	90
Sodium Sulfide	ALL	100	100	100	100	90
Sodium Sulfite	ALL	100	100	100	100	90
Sodium Tetraborate	ALL	90	80	75	90	75
Sodium Tetrabromide	ALL	-	-	80	-	70
Sodium Thiocyanate	57	80	80	80	80	-
Sodium Thiosulfate	ALL	80	80	65	80	65
Sodium Triphosphate	ALL	100	100	90	100	90

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Sodium Xylene Sulfonate	40	-	60	100	-	90
Sorbitol	ALL	80	80	80	90	80
Soybean Oil	ALL	100	100	90	100	90
Spearmint Oil	ALL	40	40	65	-	65
Stannic Chloride	ALL	100	100	90	100	90
Stannous Chloride	ALL	100	100	90	100	90
Starch (5≤pH≤8)	-	100	-	100	-	-
Stearic Acid	ALL	100	100	100	100	90
Styrene	100	NR	NR	NR	NR	NR
Styrene Acrylic Emulsion	ALL	45	45	45	-	45
Styrene Butadiene Latex	ALL	45	45	45	-	45
Succinic Acid	ALL	80	-	80	-	-
Succinonitrile, Aqueous	ALL	35	35	35	35	40
Sucrose	ALL	100	100	100	100	85
Sugar	ALL	100	-	100	-	-
Sulfamic Acid	10	100	100	100	-	90
	25	65	65	65	-	65
Sulfanilic Acid	ALL	100	100	80	100	80
Sulfite / Sulfate Liquors (pulp mill)	-	90	90	80	-	90
Sulfonated Animal Fats	100	-	-	80	-	80
Sulfonyl chloride, Aromatic	-	NR	NR	NR	NR	NR
Sulfur Dichloride	-	NR	NR	NR	NR	NR
Sulfur Dioxide (dry or wet gas)	5	100	-	90	-	90
Sulfur, Molten	-	-	65	-	-	65
Sulfur Trioxide Gas (dry)	Trace	100	-	90	-	90
Sulfuric Acid	0 - 25	100	100	100	100	90
	26 - 50	80	80	80	80	90
	51 - 70	80	80	-	80	85
	71 - 75	45	45	35	45	40
	76 - 93	NR	NR	NR	NR	NR
	Dry Fumes	100	90	90	100	90
Sulfuric Acid / Ferrous Sulfate	10 / Sat'd	90	90	90	-	90

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Sulfuric Acid / Phosphoric Acid	10 / 20	80	80	80	-	80
Sulfuryl Chloride	100	NR	NR	NR	-	NR
Superphosphoric Acid (105% H ₃ PO ₄)	100	100	100	100	-	90
T						
Tall Oil	ALL	65	80	65	65	65
Tannic Acid	ALL	100	100	100	100	90
Tartaric Acid	ALL	100	100	100	100	90
Tert-Amylmethyl Ether (TAME)	ALL	80	-	80	-	80
Tetrachloroethane	100	NR	NR	NR	-	NR
Tetrachloroethylene	100	NR	30	35	-	-
Tetrachloropentane	100	NR	NR	NR	-	NR
Tetrachloropyridine	-	NR	NR	NR	-	NR
Tetrapotassium Pyrophosphate	60	50	50	45	60	50
Tetrasodium Ethylenediamine Tetracetic Acid Salts ²	ALL	60	70	65	-	45
Tetrasodium Ethylenediammine	-	45	-	-	-	-
Tetrasodium Pyrophosphate	5	50	50	45	-	50
	60	50	50	45	-	50
Textone	-	90	100	100	100	90
Thioglycolic Acid	10	35	40	40	40	45
Thionyl Chloride	100	NR	NR	NR	NR	NR
Tobias Acid (2-Naphtylamine Sulfonic Acid)	-	100	80	90	-	80
Toluene	100	NR	NR	NR	NR	NR
Toluene Diisocyanate (TDI)	100	NR	NR	NR	-	NR
	Fumes	25	-	25	25	25
Toluene Sulfonic Acid	ALL	100	95	100	100	90
Transformer Oils	100	100	100	100	100	100
Tributyl Phosphate	100	45	55	45	-	60
Trichloroacetaldehyde	100	NR	-	NR	-	NR
Trichloroacetic Acid	50	100	90	100	100	90
Trichloroethane	100	NR	NR	NR	NR	NR
Trichloroethylene	-	NR	NR	NR	NR	-
Trichloromonofluoromethane ²	ALL	25	40	40	40	-

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Trichlorophenol	100	NR	NR	NR	NR	NR
Tridecylbenzene	ALL	-	50	50	-	90
Tridecylbenzene Sulfonate	ALL	100	90	90	100	90
Triethanolamine	ALL	40	45	45	50	65
Triethanolamine Lauryl Sulfate	ALL	-	45	-	-	40
Triethylamine	ALL	-	50	45	-	50
Triethylene Glycol	100	80	80	80	80	80
Trimethylamine Chlorobromide	-	NR	NR	NR	-	NR
Trimethylamine Hydrochloride	ALL	55	55	55	55	55
Tripropylene Glycol	100	80	80	80	-	80
Trisodium Phosphate	50	80	90	85	90	80
Turpentine	-	65	80	80	65	65
U						
Uranium Extraction	-	-	80	80	-	80
Urea	ALL	65	65	65	65	65
V						
Vegetable Oils	ALL	100	80	100	80	90
Vinegar	ALL	100	100	100	100	90
Vinyl Acetate	ALL	NR	NR	NR	-	NR
Vinyl Toluene	100	NR	NR	NR	-	NR
W						
Water, Deionized	ALL	-	80	-	90	90
Water, Demineralized	ALL	-	80	-	90	90
Water, Distilled	ALL	-	80	-	80	90
Water, Sea	-	100	80	100	90	100
Wheat germ oil	-	100	-	100	-	-
White Liquor (pulp mill)	ALL	80	80	-	80	80
X						
Xylene	ALL	NR	NR	NR	NR	NR
Z						
Zeolite	ALL	-	-	100	-	90
Zinc Chlorate	ALL	100	100	100	100	90
Zinc Chloride	ALL	100	100	100	100	90

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<i>Chemical Environment</i>	<i>Conc. %</i>	<i>DION® 9100 DION® 9100 PLUS DION® 9102 DION® 9300</i>	<i>DION® 9133</i>	<i>DION® 9400</i>	<i>DION® 9700</i>	<i>DION® 9800</i>
Zinc Cyanide	ALL	-	-	70	-	-
Zinc Nitrate	ALL	100	100	100	100	90
Zinc Sulfate	ALL	100	100	100	100	90
Zinc Sulfite	ALL	100	100	100	100	90

For further information please contact us

EMEA UPR Corrosion Resins Product Family - typical properties

<i>Chemical Environment</i>	<i>Conc. %</i>	<i>POLYLITE® 480-000 482-000</i>	<i>DION® 640-000</i>	<i>DION® 250-000</i>	<i>POLYLITE® 680-000</i>	<i>POLYLITE® 720-000 721-000</i>
A						
Acetaldehyde	100	NR	NR	NR	NR	NR
Acetic Acid	0-25	NR	25	50	30	25
	26-50	NR	25	50	30	25
	51-75	NR	NR	25	NR	NR
Acetic Acid, Glacial	100	NR	NR	NR	NR	NR
Acetic Anhydride	100	NR	NR	NR	NR	NR
Acetone	10	NR	NR	NR	NR	NR
	100	NR	NR	NR	NR	NR
Acetonitrile	100	NR	NR	NR	NR	NR
Acetophenone	100	NR	NR	NR	NR	NR
Acetyl Chloride	100	NR	NR	NR	NR	NR
Acrylonitrile	100	NR	NR	NR	NR	NR
Adipic acid	ALL	NR	-	-	-	40
Allyl Alcohol	100	NR	NR	NR	NR	NR
Allyl Chloride	ALL	NR	NR	NR	NR	NR
Alpha Methyl Styrene	100	NR	NR	NR	NR	NR
Aluminum Chloride	ALL	40	50	70	60	50
Aluminum Chlorohydrate	ALL	-	-	40	-	-
Aluminum Citrate	ALL	-	-	50	-	-
Aluminum Fluoride 2	ALL	NR	NR	25	NR	NR
Aluminum Nitrate	ALL	-	-	50	-	-
Aluminum Potassium Sulfate	ALL	-	-	60	-	-
Aluminum Sulfate	ALL	40	50	70	60	50
Amino Acids	ALL	-	-	NR	-	-
Ammonia, Liquified	ALL	NR	NR	NR	NR	NR
Ammonia, Aqueous	(See ammonium hydroxide)					
Ammonia (Dry Gas)	ALL	NR	NR	NR	NR	NR
Ammonium Bicarbonate	100	-	-	35	-	-
Ammonium Bromate	40	-	-	40	-	-
Ammonium Bromide	40	-	-	40	-	-
Ammonium Carbonate ²	ALL	-	-	30	-	-
Ammonium Chloride	ALL	40	50	50	50	50
Ammonium Citrate	ALL	-	-	30	-	-

For further information please contact us

<i>Chemical Environment</i>	<i>Conc. %</i>	<i>POLYLITE® 480-000 482-000</i>	<i>DION® 640-000</i>	<i>DION® 250-000</i>	<i>POLYLITE® 680-000</i>	<i>POLYLITE® 720-000 721-000</i>
Ammonium Hydroxide ^{2,5} (Aqueous Ammonia)	1	NR	NR	25	NR	NR
	5	NR	NR	NR	NR	NR
	10	NR	NR	NR	NR	NR
	20	NR	NR	NR	NR	NR
	29	NR	NR	NR	NR	NR
Ammonium Nitrate	ALL	-	-	50	-	-
Ammonium Persulfate	ALL	-	-	25	-	-
Ammonium Phosphate (Mono or Di Basic)	ALL	-	-	50	-	-
Ammonium Sulfate	ALL	25	50	60	60	50
Ammonium Sulfide (Bisulfide)	ALL	-	-	NR	-	-
Ammonium Thiocyanate	20	-	-	40	-	-
Amyl Acetate	ALL	NR	NR	NR	NR	NR
Amyl Alcohol	ALL	NR	25	30	30	25
Amyl Alcohol (Vapour)		-	35	40	40	35
Aniline	ALL	NR	NR	NR	NR	NR
Aniline Sulfate	Sat'd	-	30	50	-	30
Aqua Regia (3:1 HCl-HNO₃)	ALL	NR	NR	NR	NR	NR
Arsenious Acid	20	-	-	25	-	-
B						
Barium Carbonate ²	ALL	NR	NR	25	NR	NR
Barium Chloride	ALL	40	50	70	60	50
Barium Hydroxide ²	ALL	-	-	25	-	-
Barium Sulfate	ALL	-	-	60	-	-
Barium Sulfide	ALL	-	-	40	-	-
Beer	-	-	-	25	-	-
Beet Sugar Liquor	ALL	-	-	30	-	-
Benzaldehyde	100	NR	NR	NR	NR	NR
Benzene	100	NR	NR	NR	NR	NR
Benzene, HCl (wet)	ALL	NR	NR	NR	NR	NR
Benzene (Vapour)	ALL	NR	NR	NR	NR	NR
Benzoic Acid	ALL	25	40	60	60	40
Benzyl Alcohol	ALL	-	-	25	-	-

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Chemical Environment		Conc. %	POLYLITE® 480-000 482-000	DION® 640-000	DION® 250-000	POLYLITE® 680-000	POLYLITE® 720-000 721-000
Benzyl Chloride	Chlorine Dioxide ^{1,2,5}	ALL	-	-	NR	-	-
	Chlorine Water ^{1,2,5}	-	NR	NR	NR	NR	NR
	Sodium Hypochlorite ^{1,2,5}	ALL	NR	NR	NR	NR	NR
Borax		15	NR	NR	NR	NR	NR
Boric Acid		ALL	-	-	50	-	-
Brine, Salt		ALL	40	50	60	60	50
Bromine		ALL	35	40	60	40	40
Bunker C Fuel Oil		Liquid	NR	NR	NR	NR	NR
Butanediol-1,2		100	25	35	60	40	35
Butanediol-1,3		ALL	NR	-	-	-	40
Butanediol-1,4		ALL	NR	-	-	-	40
Butanol		ALL	NR	-	-	-	40
Butyl Acetate		ALL	-	25	25	-	25
Butyl Acrylate		100	NR	NR	NR	NR	NR
Butyl Amine		100	NR	NR	NR	NR	NR
Butyl Benzyl Phthalate		ALL	NR	NR	NR	NR	NR
Butylene Glycol		100	-	-	30	-	-
Butylene Oxide		100	-	-	30	-	-
Butyraldehyde		100	NR	NR	NR	NR	NR
Butyric Acid		100	NR	NR	NR	NR	NR
		50	NR	NR	25	NR	NR
C							
Cadmium Chloride		ALL	-	-	40	-	-
Calcium Bisulfite		ALL	-	-	40	-	-
Calcium Carbonate ²		ALL	-	-	30	-	-
Calcium Chlorate ²		ALL	40	50	60	50	50
Calcium Chloride		Sat'd	40	50	70	60	50
Calcium Hydroxide ²		ALL	NR	25	35	25	25
Calcium Hypochlorite ^{1,2,5}		ALL	NR	NR	NR	NR	NR
Calcium Nitrate		ALL	-	40	70	-	40
Calcium Sulfate		ALL	-	40	70	-	40
Cane Sugar Liquor/Sweet Water		ALL	-	-	30	-	-
Caprolactam		≤50	NR	-	-	-	NR
Carbon Disulfide		100	NR	NR	NR	NR	NR

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Carbon Tetrachloride	100	NR	NR	NR	NR	NR
Castor Oil	ALL	-	-	25	-	-
Chlorinated Lime	-	NR	-	-	-	NR
Chlorinated Waxes	ALL	-	-	30	-	-
Chlorine (liquid)	100	NR	NR	NR	NR	NR
Chlorine Gas (wet or dry) ⁴	-	NR	NR	25	NR	NR
Chloroacetic Acid	25	NR	25	25	NR	NR
	50	-	-	25	-	-
	80	-	NR	NR	-	-
	100	NR	25	NR	NR	NR
Chlorobenzene	100	NR	NR	NR	NR	NR
Chloroform	100	NR	NR	NR	NR	NR
Chloropyridine	100	NR	NR	NR	NR	NR
Chlorosulfonic Acid	ALL	NR	NR	NR	NR	NR
Chlorotoluene	100	NR	NR	NR	NR	NR
Chromic Acid	5	NR	NR	25	NR	NR
	20	NR	NR	NR	NR	NR
Chromous Sulfate	ALL	-	30	40	-	30
Citric Acid	ALL	25	50	60	60	50
Cobalt Chloride	ALL	-	40	50	-	40
Cobalt Nitrate	15	-	-	60	-	-
Coconut Oil	ALL	-	-	30	-	30
Copper Acetate	ALL	-	-	30	-	-
Copper Chloride	ALL	40	50	70	60	50
Copper Cyanide	ALL	25	40	60	40	40
Copper Nitrate	ALL	-	40	60	-	40
Copper Sulfate	ALL	40	50	70	60	50
Corn Oil	ALL	-	-	30	-	-
Cottonseed Oil	ALL	-	-	30	-	30
Cresylic Acids	ALL	NR	NR	NR	NR	NR
Crude Oil, Sour or Sweet	100	30	50	70	60	50
Cyclohexane	100	-	-	30	-	-
	-	NR	-	-	-	30
Cyclohexanol	-	NR	-	-	-	30
Cyclohexanone	100	NR	NR	NR	NR	NR

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D						
Decane/Decene	ALL	NR	-	-	-	40
Decanol	100	-	-	25	-	-
Deionized Water	ALL	35	50	60	40	50
Demineralized Water	ALL	35	50	60	40	50
Detergents, Organic	100	-	-	25	-	-
Detergents, Sulfonated	ALL	-	-	30	-	-
Diallylphthalate	ALL	-	-	30	-	-
Diammonium Phosphate	65	-	-	30	-	-
Dibromophenol	-	NR	NR	NR	NR	NR
Dibromopropanol	ALL	NR	NR	NR	NR	NR
Dibutylphthalate	100	25	50	60	50	50
Dichlorobenzene	100	NR	NR	NR	NR	NR
Dichloroethane	100	NR	NR	NR	NR	NR
Dichloroethylene	100	NR	NR	NR	NR	NR
Dichloromethane (Methylene Chloride)	100	NR	NR	NR	NR	NR
Dichloropropane	100	NR	NR	NR	NR	NR
Dichloropropene	100	NR	NR	NR	NR	NR
Dichloropropionic Acid	100	NR	NR	NR	NR	NR
Diesel Fuel	ALL	25	35	60	40	35
Diethyl Amine	100	NR	NR	NR	NR	NR
Diethyl Ether (Ethyl Ether)	100	NR	NR	NR	NR	NR
Diethyl Aniline-N,N	-	NR	-	-	-	NR
Diethyl Formamide	100	NR	NR	NR	NR	NR
Diethyl Ketone	100	NR	NR	NR	NR	NR
Diethyl Maleate	100	NR	NR	NR	NR	NR
Diethylenetriamine (DETA)	100	NR	NR	NR	NR	NR
Diethylene Glycol	100	40	50	70	70	50
Diisobutyl Ketone	100	NR	NR	NR	NR	NR
Diisobutyl Phthalate	100	-	-	30	-	-
Dimethyl Aniline-N,N	-	NR	-	-	-	NR
Dimethyl Formamide	100	NR	NR	NR	NR	NR
Dimethyl Phthalate	100	25	50	60	50	50
Diocetyl Phthalate	100	-	-	60	-	-
Dioxane	100	NR	NR	NR	NR	NR

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Dipropylene Glycol	ALL	40	50	60	50	50
Distilled Water	ALL	35	50	60	40	50
Divinyl Benzene	100	NR	NR	NR	NR	NR
E						
Epichlorohydrin	100	-	-	NR	-	-
Esters of Fatty Acids	100	-	-	40	-	-
Ethanolamine	100	NR	NR	NR	NR	NR
Ethyl Acetate	100	NR	NR	NR	NR	NR
Ethyl Acrylate	100	NR	NR	NR	NR	NR
Ethyl Alcohol (Ethanol)	10	25	30	40	-	25
	50	-	25	40	-	25
	95-100	NR	25	40	30	25
Ethyl Benzene	100	NR	NR	NR	NR	NR
Ethyl Benzene/Benzene Blends	100	NR	NR	NR	NR	NR
Ethyl Bromide	100	NR	NR	NR	NR	NR
Ethyl Chloride	100	NR	NR	NR	NR	NR
Ethyl Ether (Diethyl Ether)	100	NR	NR	NR	NR	NR
Ethylene Chloride	100	NR	NR	NR	NR	NR
Ethylene Diamine	100	NR	NR	NR	NR	NR
Ethylene Dibromide	ALL	NR	NR	NR	NR	NR
Ethylene Dichloride	100	NR	NR	NR	NR	NR
Ethylene Glycol	ALL	40	50	70	60	50
Ethylene Oxide	100	NR	NR	NR	NR	NR
F						
Fatty Acids	ALL	25	50	70	60	50
Ferric Chloride	ALL	40	50	70	60	50
Ferric Nitrate	ALL	30	40	70	60	40
Ferric Sulfate	ALL	40	50	70	60	50
Ferrous Chloride	ALL	30	40	70	60	40
Ferrous Nitrate	ALL	30	40	70	60	40
Ferrous Sulfate	ALL	40	50	70	60	50
Fluoboric Acid ²	10	-	-	25	-	-
	15	-	-	NR	-	-
Formaldehyde	ALL	-	-	50	-	-

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Formic Acid	10	NR	NR	30	-	NR
	50	NR	NR	NR	-	NR
Fuel Oil	100	25	35	60	40	35
Furfural	50-100	NR	NR	NR	NR	NR
G						
Galactose	ALL	30	-	-	-	40
Gasoline Regular Leaded	100	25	25	40	35	25
Gasoline, Regular Unleaded	100	25	25	40	35	25
Gasoline, Alcohol Containing	100	-	25	-	-	-
Gluconic Acid	50	-	-	30	-	-
Glucose	ALL	-	-	50	-	-
Glycolic Acid (Hydroxyacetic Acid)	10	-	-	40	-	-
H						
Heptane	100	25	25	60	35	25
Heptene	100	NR	-	-	-	40
Hexane	100	-	-	30	-	-
Hydrazine	100	NR	NR	NR	NR	NR
Hydrobromic Acid	18	-	-	25	-	-
Hydrochloric Acid ^{3,4}	10	30	40	70	50	40
	15	25	30	50	35	30
	25	-	-	25	-	-
	37	NR	NR	25	NR	NR
Hydrochloric Acid & Organics	-	NR	NR	25	NR	NR
Hydrocyanic Acid	10	-	-	25	-	-
Hydrofluoric Acid ²	1	-	-	NR	-	-
	10	NR	NR	NR	NR	NR
	-	NR	NR	NR	NR	NR
Hydrofluosilicic Acid ²	10	-	-	NR	-	-
	35	-	-	NR	-	-
Hydrogen Bromide, gas	ALL	-	-	25	-	-
Hydrogen Chloride, dry gas	100	-	-	40	-	-
Hydrogen Peroxide (storage)	5	NR	NR	25	NR	NR
	30	NR	NR	NR	NR	NR
Hydrogen Sulfide, gas	ALL	NR	NR	30	NR	NR

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I						
Isoamyl Alcohol	100	-	25	-	-	25
Isobutyl Alcohol	ALL	-	25	-	-	25
Isodecanol	ALL	-	25	-	-	25
Isononyl Alcohol	100	-	25	-	-	25
Isooctyl Alcohol	100	-	25	35	30	25
Isopropyl Alcohol	ALL	NR	25	35	30	25
J						
Jet Fuel	-	20	30	35	30	30
K						
Kerosene	100	NR	25	50	40	25
L						
Lactic Acid	ALL	25	30	40	30	30
Lauryl Alcohol	100	-	-	-	-	30
Lead Acetate	ALL	30	40	50	40	40
Lead Chloride	ALL	-	-	50	-	-
Lead Nitrate	ALL	-	-	70	-	-
Lime Slurry	ALL	-	-	30	-	-
Linseed Oil	ALL	40	60	70	100	60
Lithium Bromide	ALL	-	-	30	-	-
Lithium Chloride	ALL	-	-	50	-	-
Lithium Sulfate	ALL	-	-	50	-	-
M						
Magnesium Carbonate	15	25	35	50	35	35
Magnesium Chloride	ALL	40	50	70	60	50
Magnesium Nitrate	ALL	30	40	60	40	40
Magnesium Sulfate	ALL	40	50	70	60	50
Maleic Acid	ALL	-	-	50	-	-
Maleic Anhydride	100	-	-	50	-	-
Manganese Chloride	ALL	-	-	60	-	-
Manganese Sulfate	ALL	-	-	60	-	-
Mannitol	ALL	30	-	-	-	40
Mannose	ALL	30	-	-	-	40
Mercuric Chloride	ALL	40	50	70	60	50

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Mercurous Chloride	ALL	40	50	70	60	50
Mercury	-	-	-	70	-	-
Methyl Alcohol (Methanol)	100	NR	NR	NR	NR	NR
Methyl Ethyl Ketone	ALL	NR	NR	NR	NR	NR
Methyl Isobutyl Ketone	100	NR	NR	NR	NR	NR
Methyl Methacrylate	ALL	NR	NR	NR	NR	NR
Methyl Styrene	100	NR	NR	NR	NR	NR
Methylene Chloride	100	NR	NR	NR	NR	NR
Mineral Oils	100	30	50	70	60	50
Monochloroacetic Acid	50	NR	25	25	NR	NR
Monochlorobenzene	100	NR	NR	NR	NR	NR
Monoethanolamine	100	NR	NR	NR	NR	NR
Monomethylhydrazine	100	NR	NR	NR	NR	NR
Morpholine	100	NR	NR	NR	NR	NR
Motor Oil	100	30	50	60	50	50
Mustard	ALL	-	30	-	-	30
N						
Naphta, Aliphatic	100	NR	25	40	30	25
Naphtalene	ALL	30	40	60	50	40
Neopentyl Glycol	ALL	NR	-	-	-	40
Nickel Chloride	All	40	50	70	60	50
Nickel Nitrate	ALL	40	50	70	60	50
Nickel Sulfate	ALL	40	50	70	60	50
Nitric Acid	2	NR	NR	40	NR	NR
	5	NR	NR	30	NR	NR
	15	NR	NR	NR	NR	NR
	35	NR	NR	NR	NR	NR
	50	NR	NR	NR	NR	NR
Nitrobenzene	100	NR	NR	NR	NR	NR
Nitrogen Tetroxide	100	NR	NR	NR	NR	NR
Nonane / Nonene	ALL	NR	-	-	-	40
O						
Octane / Octene	ALL	NR	-	-	-	40
Octylamine, Tertiary	100	30	50	60	50	50

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Oil, Sweet or Sour Crude	100	30	50	60	50	70
Oleic Acid	ALL	40	50	60	50	50
Oleum (Fuming Sulfuric Acid)	-	NR	NR	NR	NR	NR
Olive Oil	100	-	-	60	-	-
Orange Oil (Limonene)	100	-	-	60	-	-
Organic Detergents, pH<12	ALL	-	-	25	-	-
Oxalic Acid	100	NR	30	50	40	30
P						
Palm Oil	100	-	-	50	-	-
Palmitic Acid	100	-	-	60	-	-
Paraffin Wax	-	30	-	-	-	40
Pentasodium Tripoly Phosphate	10	-	-	40	-	-
Perchloroethylene	100	-	-	NR	-	-
Perchloric Acid	10	NR	NR	NR	NR	NR
	30	NR	NR	NR	NR	NR
Phenol (Carbolic Acid)	5	-	-	NR	-	-
	>5	NR	NR	NR	NR	NR
Phosphoric Acid	80	NR	30	50	NR	25
Phosphoric Acid Vapour & Condensate	-	-	-	50	-	-
Phosphorous Trichloride	-	NR	NR	NR	NR	NR
Phthalic Acid	100	-	-	60	-	-
Phthalic Anhydride	100	30	40	70	50	40
Picric Acid (Alcoholic)	10	-	-	25	-	-
Polyphosphoric Acid (115%)	-	-	-	30	-	-
Polyvinyl Acetate Emulsion	ALL	-	-	25	-	-
Polyvinyl Alcohol	ALL	-	-	25	-	-
Potassium Aluminium Sulfate	ALL	-	-	50	-	-
Potassium Bicarbonate ²	10	25	40	60	40	40
	50	25	40	60	40	40
Potassium Bromide	ALL	-	-	60	-	-
Potassium Carbonate ²	10	NR	NR	25	NR	NR
Potassium Chloride	ALL	40	50	70	60	50
Potassium Dichromate	ALL	25	25	35	25	25
Potassium Ferricyanide	ALL	40	50	60	50	50

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Oil, Sweet or Sour Crude	100	30	50	60	50	70
Oleic Acid	ALL	40	50	60	50	50
Oleum (Fuming Sulfuric Acid)	-	NR	NR	NR	NR	NR
Olive Oil	100	-	-	60	-	-
Orange Oil (Limonene)	100	-	-	60	-	-
Organic Detergents, pH<12	ALL	-	-	25	-	-
Oxalic Acid	100	NR	30	50	40	30
P						
Palm Oil	100	-	-	50	-	-
Palmitic Acid	100	-	-	60	-	-
Paraffin Wax	-	30	-	-	-	40
Pentasodium Tripoly Phosphate	10	-	-	40	-	-
Perchloroethylene	100	-	-	NR	-	-
Perchloric Acid	10	NR	NR	NR	NR	NR
	30	NR	NR	NR	NR	NR
Phenol (Carbolic Acid)	5			NR		
	>5	NR	NR	NR	NR	NR
Phosphoric Acid	80	NR	30	50	NR	25
Phosphoric Acid Vapour & Condensate	-	-	-	50	-	-
Phosphorous Trichloride	-	NR	NR	NR	NR	NR
Phthalic Acid	100	-	-	60	-	
Phthalic Anhydride	100	30	40	70	50	40
Picric Acid (Alcoholic)	10	-	-	25	-	-
Polyphosphoric Acid (115%)	-	-	-	30	-	-
Polyvinyl Acetate Emulsion	ALL	-	-	25	-	-
Polyvinyl Alcohol	ALL	-	-	25	-	-
Potassium Aluminium Sulfate	ALL	-	-	50	-	-
Potassium Bicarbonate ²	10	25	40	60	40	40
	50	25	40	60	40	40
Potassium Bromide	ALL	-	-	60	-	-
Potassium Carbonate ²	10	NR	NR	25	NR	NR
Potassium Chloride	ALL	40	50	70	60	50
Potassium Dichromate	ALL	25	25	35	25	25
Potassium Ferricyanide	ALL	40	50	60	50	50

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Potassium Ferrocyanide	ALL	40	50	60	50	50
Potassium Fluoride ²	ALL	NR	-	-	-	40
Potassium Hydroxide ^{2,5}	10	NR	NR	NR	NR	NR
Potassium Iodide	ALL	-	-	25	-	-
Potassium Nitrate	ALL	40	50	70	60	50
Potassium Permanganate	ALL	NR	NR	30	NR	NR
Potassium Persulfate	ALL	-	-	25	-	-
Potassium Sulfate	ALL	40	50	70	60	50
Propyl Alcohol (Propanol)	20	NR	-	-	-	40
Propylene Glycol	ALL	40	50	70	60	50
Pyridine	100	NR	NR	NR	NR	NR
S						
Salicylic Acid	ALL	-	-	25	-	-
Sea Water	-	-	-	60	-	-
Silicic Acid (Hydrated Silica)	ALL	-	-	40	-	-
Silver Nitrate	ALL	NR	25	50	30	25
Sodium Acetate	ALL	40	50	70	60	50
Sodium Benzoate	ALL	-	-	50	-	-
Sodium Bicarbonate ²	ALL	30	50	60	50	50
Sodium Bisulfate	ALL	30	50	60	40	50
Sodium Borate	ALL	-	-	70	-	-
Sodium Bromate	5	-	-	60	-	-
Sodium Bromide	ALL	-	-	70	-	-
Sodium Carbonate (Soda Ash) ²	10	NR	NR	30	NR	NR
	35	NR	NR	NR	NR	NR
Sodium Chlorate	ALL	-	-	30	-	-
Sodium Chloride	ALL	-	-	50	-	-
Sodium Chlorite	10	-	-	NR	-	-
	50	-	-	NR	-	-
Sodium Cyanide	5	NR	25	40	25	25
	15	NR	25	35	25	25
Sodium Dichromate	ALL	-	-	40	-	-
Sodium Diphosphate	100	-	-	50	-	-
Sodium Ferricyanide	ALL	-	-	40	-	-

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Sodium Ferrocyanide	ALL	-	-	40	-	-
Sodium Fluoride ²	ALL	-	-	30	-	-
Sodium Hydroxide ^{2,5}	1	NR	NR	NR	NR	NR
	5	NR	NR	NR	NR	NR
	10	NR	NR	NR	NR	NR
	25	NR	NR	NR	NR	NR
	50	NR	NR	NR	NR	NR
Sodium Hypochlorite ^{1,2,5}	15	NR	NR	NR	NR	NR
Sodium Hyposulfite	20	-	-	30	-	-
Sodium Monophosphate	ALL	-	-	60	-	-
Sodium Nitrate	ALL	40	50	70	60	50
Sodium Nitrite	ALL	-	-	50	-	-
Sodium Silicate, pH<12	100	NR	NR	25	NR	NR
Sodium Silicate, pH>12	100	NR	NR	NR	NR	NR
Sodium Sulfate	ALL	40	50	70	60	50
Sodium Sulfide	ALL	NR	NR	30	NR	NR
Sodium Sulfite	ALL	NR	NR	30	NR	NR
Sodium Tetraborate	ALL	-	-	40	-	-
Sodium Triphosphate	ALL	-	-	30	-	-
Soybean Oil	ALL	-	-	50	-	-
Stannic Chloride	ALL	40	50	70	60	50
Stannous Chloride	ALL	40	50	70	60	50
Starch (5≤pH≤8)	-	30	-	-	-	40
Stearic Acid	ALL	25	40	70	55	40
Styrene	100	NR	NR	NR	NR	NR
Succinic Acid	ALL	NR	-	-	-	40
Sucrose	ALL	-	-	60	-	-
Sugar	ALL	30	-	-	-	40
Sulfamic Acid	10	-	-	40	-	-
	25	-	-	25	-	-
Sulfonyl chloride, Aromatic	-	NR	NR	NR	NR	NR
Sulfur Dichloride	-	NR	NR	NR	NR	NR

For further information please contact us

<i>Chemical Environment</i>	<i>Conc. %</i>	<i>POLYLITE® 480-000 482-000</i>	<i>DION® 640-000</i>	<i>DION® 250-000</i>	<i>POLYLITE® 680-000</i>	<i>POLYLITE® 720-000 721-000</i>
Sulfuric Acid	0-25	25	45	70	60	45
	26-50	25	40	60	40	40
	51-70	NR	NR	30	NR	NR
	71-75	NR	NR	NR	NR	NR
	76-93	NR	NR	NR	NR	NR
Sulfuryl Chloride	100	NR	NR	NR	NR	NR
T						
Tannic Acid	ALL	35	40	70	60	40
Tartaric Acid	ALL	-	-	60	-	-
Tetrachloroethane	100	NR	NR	NR	NR	NR
Tetrachloroethylene	100	NR			NR	NR
Tetrachloropentane	100	NR	NR	NR	NR	NR
Tetrachloropyridine		NR	NR	NR	NR	NR
Thioglycolic Acid	10	-	-	NR	-	-
Thionyl Chloride	100	NR	NR	NR	NR	NR
Toluene	100	NR	NR	25	25	NR
Toluene Diisocyanate (TDI)	100	NR	NR	NR	NR	NR
	Fumes	NR	NR	NR	NR	NR
Toluene Sulfonic Acid	ALL	-	-	25	-	-
Trichloroacetic Acid	50	-	-	25	-	-
Trichloroethane	100	NR	NR	NR	NR	NR
Trichloroethylene		NR	NR	NR	NR	NR
Trichlorophenol	100	NR	NR	NR	NR	NR
Triethanolamine	ALL	-	-	25	-	-
Triethylamine	ALL	NR	NR		NR	NR
Triethylene Glycol	100	-	-	30	-	-
Trimethylamine Chlorobromide		NR	NR	NR	NR	NR
Triphenyl Phosphite	ALL	NR	NR		NR	NR
Trisodium Phosphate	50	NR	NR	30	NR	NR
Turpentine	-	-	-	30	-	-
U						
Urea	ALL	-	25	40	-	-

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<i>Chemical Environment</i>	<i>Conc. %</i>	<i>POLYLITE® 480-000 482-000</i>	<i>DION® 640-000</i>	<i>DION® 250-000</i>	<i>POLYLITE® 680-000</i>	<i>POLYLITE® 720-000 721-000</i>
V						
Vegetable Oils	ALL	-	-	40	30	-
Vinegar	ALL	-	-	35	-	-
Vinyl Acetate	ALL	NR	NR	NR	NR	NR
Vinyl Toluene	100	NR	NR	NR	NR	NR
W						
Water, Deionized	ALL	45	50	60	50	50
Water, Distilled	ALL	40	50	60	50	50
Water, Sea	-	50	60	60	60	60
Wheat germ oil	-	30	-	-	-	40
White Liquor (pulp mill)	ALL	NR	NR	-	NR	NR
X						
Xylene	ALL	NR	25	30	30	25
Z						
Zinc Chlorate	ALL	-	-	50	-	-
Zinc Chloride	ALL	40	50	70	60	50
Zinc Nitrate	ALL	40	50	70	50	50
Zinc Sulfate	ALL	40	50	70	50	50
Zinc Sulfite	ALL	-	25	60	-	25

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