BELZONA® PRODUCT DATA G501

CHEMICAL RESISTANCE OF BELZONA® 5811

(Immersion Grade)

INORGANIC ACIDS	RATING		RATING
Carbonic acid	Ex	Nitric acid (20%)	F
Fluorosilicic acid	F	Nitrous acid (10%)	Ex
Hydrobromic acid (5%)	Ex	Oleum	P
Hydrochloric acid (5%)	Ex	Phosphoric acid (10%)	G
Hydrochloric acid (10%)	G	Sulfuric acid (5%)	Ex
Hydrochloric acid (20%)	F	Sulfuric acid (10%)	G
Hydrochloric acid (36%)	P	Sulfuric acid (20%)	F
Nitric acid (5%)	Ex	Sulfuric acid (98%)	P
Nitric acid (10%)	G		

ORGANIC ACIDS	RATING		RATING
Acetic acid (5%)	F	Formic acid (5%)	F
Acetic acid (20%)	P	Formic acid (20%)	P
Chlorosulfonic acid	F	Lactic acid (10%)	F
Citric acid	G	Phenol (80%)	P
Cresylic acid	P		

ALCOHOLS	RATING		RATING
Butanol	Ex	2-Methoxy ethanol	Ex
Ethanol	F	Propanol	Ex
Ethylene glycol	Ex	Propylene glycol	Ex
Glycerol	Ex	Secondary alcohols	Ex
Higher alcohols	Ex	Tertiary alcohols	Ex
Methanol	P		

ALKALIS	RATING		RATING
Ammonia (10%)	Ex	Potassium hydroxide (10%)	Ex
Ammonia (20%)	Ex	Potassium hydroxide (20%)	Ex
Barium hydroxide	Ex	Potassium hydroxide (40%)	Ex
Calcium hydroxide	Ex	Sodium hydroxide (10%)	Ex
Lime Water	Ex	Sodium hydroxide (20%)	Ex
Magnesium hydroxide	Ex	Sodium hydroxide (40%)	Ex
		Sodium hydroxide (50%)	Ex

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact Belzona to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Belzona, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose.

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AMINES & AMIDES	RATING		RATING
Aniline	F	Methylamine (25% in water)	G
Diethanolamine	Ex	Pyridine	P
Diethylamine	P	Triethanolamine	Ex
Dimethylformamide	P		

BEVERAGES & FOODSTUFFS	RATING		RATING
Beer	Ex	Milk	G
Cider	Ex	Sugar solution	Ex
Citrus juices	Ex	Vinegar	F
Fermentation liquor	Ex	Whisky and Wine	Ex
Glucose	Ex		

ESTERS & ETHERS	RATING		RATING
Amyl acetate	G	Dioctyl phthalate	Ex
Butyl acetate	G	Dioctyl sebacate	Ex
Dibutyl adipate	Ex	Diphenyl isodecyl phosphate	Ex
Dibutyl phthalate	Ex	Ethyl acetate	G
Dibutyl sebacate	Ex	Isopropyl ether	Ex
Diethyl ether	Ex	Methyl acetate	G
Dioctyl adipate	Ex		

GASES	RATING		RATING
Carbon dioxide (dry)	Ex	Nitrogen	Ex
Carbon monoxide	Ex	Nitrous oxide	Ex
Chlorine (dry)	Ex	Ozone (dry)	Ex
Chlorine (wet)	F	Ozone (aqueous solution)	F
Hydrogen	Ex	Sulfur dioxide	Ex
Natural gas	Ex	Sulfur trioxide	Ex

HALOCARBONS	RATING		RATING
Carbon tetrachloride	G	Methylene chloride	P
Chlorobenzene	F	Perchloroethylene	G
Chloroform	G	1, 1, 1, - Trichloroethane	G
Dry cleaning fluids	G		

HYDROCARBONS	RATING		RATING
Aviation fuel (Avtag)	Ex	Kerosene	Ex
Benzene	F	Mineral spirits	Ex
Cyclohexane	G	Paraffin	Ex
Gasoline (with Ethanol)	F	Pentane	Ex
Gasoline (without Ethanol)	G	Styrene	G
Heptane	Ex	Toluene	F
Hexane	Ex	White spirit	Ex
Iso-octane	Ex	Xylene	F

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KETONES	RATING		RATING
Acetone	F	Methyl ethyl ketone	F

MISCELLANEOUS	RATING		RATING
Bleach	F	Mercury	Ex
Brake Fluid	Ex	Mine Waters (acid)	Ex
Drilling Mud	Ex	Oil/water mixtures	Ex
Emulsion paint	Ex	Water, distilled	Ex
Fertilizer solutions	Ex	Water, fresh	Ex
Grease	Ex	Water, sea	Ex
Ink (water based)	Ex		

OILS - MINERAL	RATING		RATING
Bunker oils (fuel oils)	Ex	Diesel oil	Ex
Crude oil	Ex	Lubricating oil	Ex
Cutting oils, water emulsions	Ex	Transformer oil	Ex

OILS - VEGETABLE/ANIMAL	RATING		RATING
Castor oil	Ex	Corn oil	Ex
Coconut oil	Ex	Linseed oil	Ex
Cod liver oil	Ex	Olive oil	Ex

SALTS	RATING		RATING
Aluminium chloride (dry)	Ex	Potash alum	Ex
Aluminium sulfate	Ex	Potassium bisulfite	Ex
Alums	Ex	Potassium bromide	Ex
Ammonium bicarbonate	Ex	Potassium carbonate	Ex
Ammonium carbonate	Ex	Potassium chlorate	Ex
Ammonium chloride	Ex	Potassium chloride	Ex
Ammonium monophosphate	Ex	Potassium cyanide	Ex
Ammonium phosphate (dibasic)	Ex	Potassium dichromate	Ex
Ammonium phosphate (tribasic)	Ex	Potassium diphosphate	Ex
Ammonium nitrate	Ex	Potassium ferricyanide	Ex
Ammonium sulfate	Ex	Potassium ferrocyanide	Ex
Antimony trichloride	Ex	Potassium iodide	Ex
Barium carbonate	Ex	Potassium nitrate	Ex
Barium chloride	Ex	Potassium permanganate	Ex
Barium sulfate	Ex	Potassium sulfate	Ex
Brines	Ex	Potassium sulfide	Ex
Calcium bisulfite	Ex	Potassium sulfite	Ex
Calcium carbonate	Ex	Silver nitrate	Ex
Calcium chloride	Ex	Sodium acetate	Ex
Calcium hypochlorite	Ex	Sodium aluminate	Ex
Calcium sulfate	Ex	Sodium bicarbonate	Ex
Chrome alum	Ex	Sodium bisulfate	Ex
Copper acetate	Ex	Sodium bisulfite	Ex
Copper chloride	Ex	Sodium borate	Ex

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SALTS continued	RATING		RATING
Copper nitrate	Ex	Sodium bromide	Ex
Copper sulfate	Ex	Sodium carbonate	Ex
Epsom salt	Ex	Sodium chloride	Ex
Ferric chloride (dry)	Ex	Sodium chromate	Ex
Ferric nitrate	Ex	Sodium cyanide	Ex
Ferric sulfate	Ex	Sodium fluoride	Ex
Ferrous chloride	Ex	Sodium hypochlorite	F
Ferrous sulfate	G	Sodium metaphosphate	Ex
Lead acetate	Ex	Sodium metasilicate	Ex
Magnesium bisulfate	Ex	Sodium nitrate	Ex
Magnesium chloride	Ex	Sodium phosphate (dibasic)	Ex
Magnesium sulfate	Ex	Sodium phosphate (tribasic)	Ex
Mercuric chloride	Ex	Sodium silicate	Ex
Mercuric cyanide	Ex	Sodium sulfate	Ex
Nickel ammonium sulfate	Ex	Sodium sulfide	Ex
Nickel chloride	Ex	Stannous chloride	Ex
Nickel nitrate	Ex	Zinc chloride	Ex
Nickel sulfate	Ex	Zinc hydrosulfite	Ex
		Zinc sulfate	Ex

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These tables are based upon immersion tests carried out under static conditions at 68°F (20°C).

They should only be considered as a guide to the performance which might be expected under practical conditions.

In these tables, the following nomenclature has been used:-

(Ex)	Excellent	-	Suitable for all reasonable applications including immersion
(G)	Good	-	Suitable for applications involving immersion for short periods, splashing and contact with fumes.
(F)	Fair	-	Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or, in the case of volatile solvents, by evaporation.
(P)	Poor	-	Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.

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