
BELZONA® PRODUCT DATA G501

CHEMICAL RESISTANCE OF BELZONA® 5811 (Immersion Grade)

INORGANIC ACIDS

	<u>RATING</u>
Carbonic acid	Ex
Hydrobromic acid (0-10%)	Ex
Hydrochloric acid (0-20%)	Ex
Hydrochloric acid (20-35%)	F
Hydrofluorosilicic acid	F
Nitric acid (0-10%)	Ex
Nitric acid (10-20%)	G

	<u>RATING</u>
Nitrous acid (0-20%)	Ex
Oleum	P
Phosphoric acid (0-10%)	Ex
Sulphuric acid (0-10%)	Ex
Sulphuric acid (10-20%)	G
Sulphuric acid (98%)	P

ORGANIC ACIDS

	<u>RATING</u>
Acetic acid (0-10%)	G
Acetic acid (10-20%)	F
Acetic acid (20-50%)	P
Chloroacetic acid	F
Chlorosulphonic acid	F
Citric acid	G

	<u>RATING</u>
Cresylic acid	P
Formic acid (0-10%)	F
Formic acid (10-20%)	F
Lactic acid (0-10%)	G
Phenol (80%)	P

ALCOHOLS

	<u>RATING</u>
Methanol	G
Ethanol	Ex
Propanol	Ex
Butanol	Ex
Ethylene glycol	Ex
Glycerol	Ex

	<u>RATING</u>
Higher alcohols	Ex
2-Methoxyethanol	Ex
Propylene glycol	Ex
Secondary alcohols	Ex
Tertiary alcohols	Ex

ALKALIS

	<u>RATING</u>
Ammonia (0-10%)	Ex
Ammonia (10-20%)	Ex
Barium hydroxide	Ex
Calcium hydroxide	Ex
Lime Water	Ex
Magnesium hydroxide	Ex

	<u>RATING</u>
Potassium hydroxide (0-10%)	Ex
Potassium hydroxide (10-20%)	Ex
Potassium hydroxide (20-40%)	Ex
Sodium hydroxide (0-10%)	Ex
Sodium hydroxide (10-20%)	Ex
Sodium hydroxide (20-40%)	Ex

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All descriptions are based on the results of long term tests carried out in our laboratories and are believed to be true and accurate. No condition or warranty is given covering the results from the use of our products in any particular case, whether the purpose is disclosed or not and we cannot accept liability if the desired results are not obtained.

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AMINES & AMIDES

Aniline	F
Diethanolamine	Ex
Diethylamine	P
Dimethylformamide	P

RATING

Methylamine (25% in water)
Pyridine
Triethanolamine

RATING

G
P
Ex

BEVERAGES & FOODSTUFFS

Beer	Ex
Cider	Ex
Citrus juices	Ex
Fermentation liquor	Ex
Glucose	Ex

RATING

Milk
Sugar solution
Vinegar
Whisky and Wine

RATING

G
Ex
G
Ex

ESTERS & ETHERS

Amyl acetate	Ex
Butyl acetate	Ex
Dibutyl adipate	Ex
Dibutyl phthalate	Ex
Dibutyl sebacate	Ex
Dioctyl adipate	Ex
Dioctyl phthalate	Ex

RATING

Dioctyl sebacate
Diethyl ether
Diphenyl isodecylphosphate
Ethyl acetate
Isopropyl ether
Methyl acetate

RATING

Ex
Ex
Ex
Ex
Ex
Ex

GASES

Carbon dioxide (dry)	Ex
Carbon monoxide	Ex
Chlorine (dry)	Ex
Chlorine (wet)	Ex
Hydrogen	Ex
Natural Gas	Ex

RATING

Nitrogen
Nitrous oxide
Ozone (dry)
Ozone (aqueous solution)
Sulphur dioxide
Sulphur trioxide

RATING

Ex
Ex
Ex
F
Ex
Ex

HALOCARBONS

Carbon tetrachloride	G
Chlorobenzene	G
Chloroform	G
Dry cleaning fluids	G

RATING

Methylene chloride
Perchloroethylene
1, 1, 1, - Trichloroethane

RATING

P
G
G

HYDROCARBONS

Aviation fuel (Avtag)	Ex
Benzene	Ex
Cyclohexane	Ex
Gasoline	Ex
Heptane	Ex
Hexane	Ex
Iso-octane	Ex
Mineral spirits	Ex

RATING

Paraffin
Pentane
Kerosene
Petrol
Toluene
White Spirit
Styrene
Xylene

RATING

Ex
Ex
Ex
Ex
Ex
Ex
Ex
Ex

KETONES

Acetone

RATING

F

Methyl ethyl ketone

RATING

F

MISCELLANEOUS

Bleach

RATING

F

Brake Fluid

Ex

Drilling mud

Ex

Emulsion paint

Ex

Fertilizer solutions

Ex

Grease

Ex

Ink (water based)

Ex

Mercury

RATING

Ex

Mine waters (acid)

Ex

Oil/water mixtures

Ex

Water, distilled

Ex

Water, fresh

Ex

Water, sea

Ex

OILS - MINERAL

Bunker oils (fuel oils)

RATING

Ex

Crude oil

Ex

Cutting oils, water emulsions

Ex

Diesel oil

RATING

Ex

Lubricating oil

Ex

Transformer oil

Ex

OILS - VEGETABLE/**ANIMAL**

Castor oil

RATING

Ex

Coconut oil

Ex

Cod liver oil

Ex

Corn oil

RATING

Ex

Linseed oil

Ex

Olive oil

Ex

SALTS

Aluminium chloride (dry)

RATING

Ex

Aluminium sulphate

Ex

Alums

Ex

Ammonium bicarbonate

Ex

Ammonium carbonate

Ex

Ammonium chloride

Ex

Ammonium monophosphate

Ex

Ammonium phosphate
(dibasic)

Ex

Ammonium phosphate
(tribasic)

Ex

Ammonium nitrate

Ex

Ammonium sulphate

Ex

Antimony trichloride

Ex

Barium carbonate

Ex

Barium chloride

Ex

Barium sulphate

Ex

Brines

Ex

Calcium bisulphite

Ex

Calcium carbonate

Ex

Calcium chloride

Ex

Calcium hypochlorite

Ex

Calcium sulphate

Ex

Chrome alum

Ex

Copper acetate

Ex

Potash alum

RATING

Ex

Potassium bisulphite

Ex

Potassium bromide

Ex

Potassium carbonate

Ex

Potassium chlorate

Ex

Potassium chloride

Ex

Potassium cyanide

Ex

Potassium dichromate

Ex

Potassium diphosphate

Ex

Potassium ferricyanide

Ex

Potassium ferrocyanide

Ex

Potassium iodine

Ex

Potassium nitrate

Ex

Potassium permanganate

Ex

Potassium sulphate

Ex

Potassium sulphide

Ex

Potassium sulphite

Ex

Silver nitrate

Ex

Sodium acetate

Ex

Sodium aluminate

Ex

Sodium bicarbonate

Ex

Sodium bisulphate

Ex

Sodium bisulphite

Ex

Sodium borate

Ex

Sodium bromide

Ex

<u>SALTS</u>	<u>RATING</u>		<u>RATING</u>
Copper chloride	Ex	Sodium carbonate	Ex
Copper nitrate	Ex	Sodium carbonate	Ex
Copper sulphate	Ex	Sodium chloride	Ex
Epsom salt	Ex	Sodium chromate	Ex
Ferric chloride (dry)	Ex	Sodium cyanide	Ex
Ferric nitrate	Ex	Sodium fluoride	Ex
Ferric sulphate	Ex	Sodium hypochlorite	F
Ferrous chloride	Ex	Sodium metaphosphate	Ex
Ferrous sulphate	Ex	Sodium metasilicate	Ex
Lead acetate	Ex	Sodium nitrate	Ex
Magnesium bisulphate	Ex	Sodium phosphate (dibasic)	Ex
Magnesium chloride	Ex	Sodium phosphate (tribasic)	Ex
Magnesium sulphate	Ex	Sodium silicate	Ex
Mercuric chloride	Ex	Sodium sulphate	Ex
Mercuric cyanide	Ex	Sodium sulphide	Ex
Nickel ammonium sulphate	Ex	Stannous chloride	Ex
Nickel chloride	Ex	Zinc chloride	Ex
Nickel nitrate	Ex	Zinc hydrosulphite	Ex
Nickel sulphate	Ex	Zinc sulphate	Ex

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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