
BELZONA® PRODUCT DATA E506

CHEMICAL RESISTANCE OF BELZONA® 2221 (MP Fluid Elastomer)

INORGANIC ACIDS

	<u>RATING</u>
Carbonic acid	Ex
Hydrobromic acid (0-10%)	G
Hydrochloric acid (0-15%)	G
Hydrochloric acid (15-25%)	G
Hydrofluoric acid (0-10%)	Ex
Hydrofluorosilicic acid	P

	<u>RATING</u>
Nitric acid (0-15%)	F
Nitric acid (15-25%)	P
Oleum	F
Sulphuric acid (0-20%)	G
Sulphuric acid (20-30%)	G

ORGANIC ACIDS

	<u>RATING</u>
Acetic acid (0-10%)	F
Carbolic acid	F
Resorcinaol	P
Chlorosulphonic acid	P
Creosote oil	F

	<u>RATING</u>
Cresylic acid	P
Phenol (100%)	P
Chloroacetic acid	F
Stearic acid	Ex
Tartaric acid	Ex

ALCOHOLS, ALDEHYDES AND KETONES

	<u>RATING</u>
Acetone	F
Amyl alcohol	P
Benzaldehyde	F
Butyl alcohol	P
Ethyl alcohol	F
Ethylene glycol	F

	<u>RATING</u>
Glycerine or Glycerol	F
Isopropyl alcohol	P
Methyl alcohol	F
Methyl ethyl Ketone	F
Propyl alcohol	P
Propylene glycol	F

ALKALIS

	<u>RATING</u>
Ammonia (0-10%)	G
Ammonia (10-25%)	G
Barium hydroxide	Ex
Calcium hydroxide	Ex
Lime Water	Ex

	<u>RATING</u>
Magnesium hydroxide	Ex
Potassium hydroxide (0-25%)	G
Potassium hydroxide (25-50%)	G
Sodium hydroxide (0-25%)	G
Sodium hydroxide (25-50%)	G

E506 - 1 (Issue 2)

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.

Copyright © 1998 by Belzona International Limited. All rights reserved. Certain portions of this work copyright © 1994, 1995 by Belzona International Limited. No part of this work covered by the copyrights hereon may be reproduced or used in any form or by any means - graphic, electronic or mechanical including photocopying, recording, taping or information storage and retrieval systems - without written permission of the publisher.



ESTERS & ETHERS

Amyl acetate
Butyl acetate
Diethyl ether
Ethyl acetate

RATING

F
F
F
F

Isopropyl ether
Methyl acetate
Methyl "Cellosolve"

RATING

F
F
F

GASES

Carbon dioxide (dry)
Carbon monoxide

RATING

Ex
Ex

Hydrogen Gas
Nitrogen

RATING

Ex
Ex

**HALOGENATED
HALOCARBONS**

Carbon tetrachloride (dry)
Chlorobenzene (dry)
Chloroform (dry)
Dry cleaning fluids
Ethyl Chloride (dry)

RATING

F
F
F
F
F

Methyl chloride (dry)
Methylene chloride (dry)
Perchlorethylene (dry)
Trichlorethylene

RATING

F
F
F
F

HYDROCARBONS

Aviation fuel (Avtag)
Gasoline (petrol)
Heptane
Hexane
Iso-octane
Kerosene (Paraffin)

RATING

F
F
G
F
G
G

Petrolatum
Benzene (benzol)
Styrene
Toluene (toluol)
Xylene (xylol)

RATING

G
F
F
F
F

MISCELLANEOUS

Bleach (domestos/clorox)
Brake fluid solutions
Grease
Ink (water based)
Mercury
Oil/water mixtures
emulsion paint
Rubber latex emulsions
Silicone oil

RATING

F
F
Ex
Ex
Ex
Ex
Ex
Ex
Ex

Starch
Fertilizer
Turpentine
Water, distilled (aerated)
Water, fresh
Water, mineral
Water, sea
Wax emulsions

RATING

Ex
Ex
G
Ex
Ex
Ex
Ex
Ex

OILS - MINERAL

Bunker oils (fuel oils)
Crude oil, sweet
Crude oil, sour
Diesel oil
Fuel oil

RATING

G
G
G
G
G

Hydraulic oil petroleum based
Lube oil
Oil, petroleum (refined)
Oil, petroleum (sour)
Transformer oil

RATING

G
G
G
G
G

OILS - VEGETABLE/**ANIMAL**

	<u>RATING</u>
Castor oil	G
Coconut oil	G
Cod liver oil	G
Corn oil	G
Cottonseed oil	G
Lard oil	G
Linseed oil	G

Olive oil	G
Palm oil	G
Pine oil	G
Soyabean oil	G
Tall oil	G
Tung oil	G

RATING**SALTS**

	<u>RATING</u>
Aluminium chloride (dry)	Ex
Aluminium sulphate	Ex
Alums	Ex
Ammonium bicarbonate	Ex
Ammonium carbonate	Ex
Ammonium chloride	Ex
Ammonium phosphate	Ex
Ammonium nitrate	Ex
Ammonium sulfate	Ex
Barium carbonate	Ex
Barium chloride	Ex
Barium sulfate	Ex
Calcium cabonate	Ex
Calcium chloride	Ex
Calcium hypochlorite	F
Calcium sulfate	Ex
Copper acetate	Ex
Copper chloride	Ex
Copper nitrate	Ex
Copper sulfate	Ex
Epsom salt	Ex
Ferric chloride	F
Ferric nitrate	Ex
Ferric sulfate	Ex
Ferrous sulfate	Ex
Lead acetate	Ex
Magnesium chloride	Ex
Magnesium sulfate	Ex
Nickel chloride	Ex

	<u>RATING</u>
Potassium bromide	Ex
Potassium chlorate	Ex
Potassium chloride	Ex
Potassium cyanide	Ex
Potassium ferrocyanide	Ex
Potassium iodine	Ex
Potassium nitrate	Ex
Potassium permanganate	Ex
Potassium sulfate	Ex
Potassium sulfite	F
Silver nitrate	Ex
Sodium acetate	Ex
Sodium borate	Ex
Sodium bromide	Ex
Sodium chlorate	Ex
Sodium chloride	Ex
Sodium chromate	Ex
Sodium cyanide	Ex
Sodium fluoride	Ex
Sodium hypochlorite	F
Sodium nitrate	Ex
Sodium phosphate	Ex
Sodium silicate	Ex
Sodium sulfate	Ex
Sodium sulfide	Ex
Stannic chloride	Ex
Stannous chloride	Ex
Zinc chloride	Ex
Zinc sulfate	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. |

BELZONA® PRODUCT DATA E506

Belzona Polymerics Ltd., Harrogate, HG1 4AY, England. Tel: +44 (0) 1423 567641. Fax: +44 (0) 1423 505967.
Belzona Inc., Miami, Florida 33172, U.S.A. Tel: +1 (305) 594 4994. Fax: +1 (305) 599 1140.

