

CHEMICAL RESISTANCE OF BELZONA® 4361

FN10152



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Resistance To:		Chemical Resistance Rating
				72 hours chemical exposure	Short term immersion (3 months exposure)	
Inorganic Acids	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	30%	Yes	No	M
			10%	Yes	Yes	G
	Hydrochloric acid	HCl (7647-01-0)	37%	Yes	Yes	Ex
			10%	Yes	Yes	Ex
			5%	Yes	Yes	Ex
			3%	Yes	Yes	Ex
	Nitric acid	HNO ₃ (7697-37-2)	30%	No	No	P
			20%	Yes	No	P
			10%	Yes	No	M
			5%	Yes	Yes	Ex
			1%	Yes	Yes	Ex
	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	43%	Yes	No	M
			25%	Yes	Yes	G
			15%	Yes	Yes	Ex
	Sulphuric acid	H ₂ SO ₄ (7664-93-9)	98%	No	No	P
			95%	No	No	P
			93%	Yes	Yes	G
			90%	Yes	Yes	G
			80%	Yes	Yes	Ex
			70%	Yes	Yes	Ex
50%			Yes	Yes	Ex	
20%			Yes	Yes	Ex	
10%			Yes	Yes	Ex	
5%			Yes	Yes	Ex	
3%			Yes	Yes	Ex	
1%	Yes	Yes	Ex			
Organic Acids	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	10%	Yes	No	P
			2%	Yes	Yes	Ex
	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	30%	Yes	Yes	Ex
	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	Yes	Yes	G

Excellent	no significant deterioration / barrier properties retained for greater than 52 weeks <i>suitable for all applications including long-term immersion</i>
Good	no significant deterioration / barrier properties retained for 12 - 52 weeks <i>suitable for short-term immersion and general chemical contact</i>
Moderate	no significant deterioration / barrier properties retained for 1 - 12 weeks <i>suitable for applications involving short-term chemical contact e.g. spillage, splashing or secondary containment</i>
Poor	significant deterioration / loss of barrier properties after 1 week or less <i>not suitable for any application</i>
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Organic Acids	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	Yes	No	P
			12%	Yes	No	M
			5%	Yes	Yes	G
	Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	10%	Yes	No	M
			2%	Yes	Yes	Ex
	Salicylic acid	C ₆ H ₄ (OH)COOH (69-72-7)	-	Yes	Yes	Ex
Stearic acid (solid)	CH ₃ (CH ₂) ₁₆ CO ₂ H (57-11-4)	-	Yes	Yes	Ex	
Tannic acid	C ₇₆ H ₅₂ O ₄₆ (1401-55-4)	-	Yes	Yes	Ex	
Tartaric acid	HO ₂ CCH(OH)CH(OH)CO ₂ H (526-83-0)	-	Yes	Yes	Ex	
Alcohols	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Yes	Yes	Ex
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Yes	Yes	Ex
	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Yes	Yes	Ex
	1-Hexanol	CH ₃ (CH ₂) ₅ OH (111-27-3)	-	Yes	Yes	Ex
	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Yes	Yes	G
	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Yes	Yes	Ex
	Tetraethylene Glycol (tetraglycol)	HO(CH ₂ CH ₂ O) ₃ CH ₂ CH ₂ OH (112-60-7)	-	Yes	Yes	Ex
Alkalis	Ammonia	NH ₃ (7664-41-7)	25%	Yes	No	M
			10%	Yes	Yes	G
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Yes	Yes	Ex
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	20%	Yes	Yes	Ex
			10%	Yes	Yes	Ex
Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	50%	Yes	Yes	Ex	
		25%	Yes	Yes	Ex	
Amines & Amides	Ethanolamine (2-aminoethanol)	C ₂ H ₇ NO (141-43-5)	-	Yes	No	P
	Triethanolamine (TEA) (2,2',2''-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Yes	No	M

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Beverages & Foodstuffs	Apple juice	N/A	-	Yes	Yes	Ex
	Beer	N/A	-	Yes	Yes	Ex
	Beet sugar	N/A	-	Yes	Yes	Ex
	Butter	N/A	-	Yes	Yes	Ex
	Buttermilk	N/A	-	Yes	Yes	Ex
	Cider	N/A	-	Yes	Yes	Ex
	Citrus juices	N/A	-	Yes	Yes	Ex
	Fermentation liquor	N/A	-	Yes	Yes	Ex
	Glucose	N/A	-	Yes	Yes	Ex
	Ketchup	N/A	-	Yes	Yes	Ex
	Margarine	N/A	-	Yes	Yes	Ex
	Mayonnaise	N/A	-	Yes	Yes	Ex
	Milk	N/A	-	Yes	Yes	G
	Molasses	N/A	-	Yes	Yes	Ex
	Mustard	N/A	-	Yes	Yes	Ex
	Salad oil	N/A	-	Yes	Yes	Ex
	Sugar liquids	N/A	-	Yes	Yes	Ex
	Tomato juice	N/A	-	Yes	Yes	Ex
	Vinegar	N/A	-	Yes	No	M
	Whisky and Wine	N/A	-	Yes	Yes	Ex
Yeast	N/A	-	Yes	Yes	Ex	
Esters & Ethers	Dibutyl phthalate	$C_{16}H_{22}O_4$ (84-74-2)	-	Yes	Yes	Ex
	Dibutyl sebacate	$C_{18}H_{34}O_4$ (109-43-3)	-	Yes	Yes	Ex
	Diethyl ether	$(C_2H_5)_2O$ (60-29-7)	-	Yes	Yes	Ex
	Diethyl adipate	$C_{22}H_{42}O_4$ (123-79-5)	-	Yes	Yes	Ex
	Diethyl phthalate	$C_6H_4(C_8H_{17}COO)_2$ (117-81-7)	-	Yes	Yes	Ex
	Diethyl sebacate	$(CH_2)_8(COOC_8H_{17})_2$	-	Yes	Yes	Ex
	Ethyl acetate	$CH_3COOCH_2CH_3$ (141-78-6)	-	Yes	Yes	Ex
	Tributyl phosphate	$(CH_3CH_2CH_2CH_2O)_3PO$ (126-73-8)	-	Yes	Yes	Ex

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Gases	Butane	C ₄ H ₁₀ (106-97-8)	-	Yes	Yes	Ex
	Carbon dioxide	CO ₂ (124-38-9)	-	Yes	Yes	Ex
	Carbon monoxide	CO (630-08-0)	-	Yes	Yes	Ex
	Chlorine gas	Cl	-	Yes	Yes	G
	Hydrogen gas	H	-	Yes	Yes	Ex
	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Yes	Yes	Ex
	Natural gas (methane)	CH ₄	-	Yes	Yes	Ex
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Yes	Yes	Ex
	Ozone (aqueous solution)	O ₃ (10028-15-6)	-	Yes	Yes	G
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Yes	Yes	Ex
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Yes	Yes	Ex
Hydrocarbons	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Yes	Yes	G
	Gasoline – Ethanol free (Petrol)	N/A	-	Yes	Yes	Ex
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-5)	-	Yes	Yes	Ex
	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	Yes	Yes	Ex
	Iso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Yes	Yes	Ex
	Kerosene	N/A (8008-20-6)	-	Yes	Yes	Ex
	Naphtha	N/A	-	Yes	Yes	G
	Paraffin	N/A (8002-74-2)	-	Yes	Yes	Ex
	Petroleum naphtha	N/A	-	Yes	Yes	G
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Yes	Yes	Ex

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Hydrocarbons	Turpentine	N/A (8006-64-2)	-	Yes	Yes	Ex
	White Spirit (Stoddard solvent, mineral spirit)	N/A (8052-41-3)	-	Yes	Yes	Ex
	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Yes	Yes	Ex
Ketones	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	No	No	P
Miscellaneous	Brake fluid	N/A	-	Yes	Yes	Ex
	Emulsion paint	N/A	-	Yes	Yes	Ex
	Fertilizer solutions	N/A	-	Yes	Yes	Ex
	Grease	N/A	-	Yes	Yes	Ex
	Ink (water based)	N/A	-	Yes	Yes	Ex
	Isothiazolinone	C ₃ H ₃ NO ₅ (1003-07-2)	-	Yes	Yes	Ex
	Mesitylene (1,3,5-trimethylbenzene)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	Yes	Yes	Ex
	Naphthalene	C ₁₀ H ₈ (91-20-3)	-	Yes	Yes	Ex
	Roof pitch	N/A	-	Yes	Yes	Ex
	Rubber latex emulsions	N/A	-	Yes	Yes	Ex
	Sewage	N/A	-	Yes	Yes	Ex
	Skydrol	N/A	-	Yes	Yes	Ex
	Starch	N/A	-	Yes	Yes	Ex
	Tar	N/A	-	Yes	Yes	Ex
	Urea	CO(NH ₂) ₂ (57-13-6)	-	Yes	Yes	Ex
	Water, distilled	N/A	-	Yes	Yes	Ex
Water, fresh	N/A	-	Yes	Yes	Ex	
Water, sea	N/A	-	Yes	Yes	Ex	
Oils - Minerals	Castor oil	N/A	-	Yes	Yes	Ex
	Coconut oil	N/A	-	Yes	Yes	Ex
	Cod liver oil	N/A	-	Yes	Yes	Ex

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Oils - Minerals	Corn oil	N/A	-	Yes	Yes	Ex
	Diesel oil	N/A	-	Yes	Yes	Ex
	Hydraulic oil	N/A	-	Yes	Yes	Ex
	Lubricating oil	N/A	-	Yes	Yes	Ex
	Oil, petroleum	N/A	-	Yes	Yes	Ex
	Oil/water mixtures	N/A	-	Yes	Yes	Ex
	Silicone oil	N/A	-	Yes	Yes	Ex
	Soybean oil	N/A	-	Yes	Yes	Ex
	Transfer oil	N/A	-	Yes	Yes	Ex
	Tung oil	N/A	-	Yes	Yes	Ex
Salts	Aluminium chloride (dry)	AlCl ₃ (7446-70-0)	-	Yes	Yes	Ex
	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	-	Yes	Yes	Ex
	Alums	N/A	-	Yes	Yes	Ex
	Ammonium bicarbonate	(NH ₄)HCO ₃ (1066-33-7)	-	Yes	Yes	Ex
	Ammonium fluorosilicate	(NH ₄) ₂ SiF ₆ (16919-19-0)	-	Yes	Yes	Ex
	Ammonium nitrate	NH ₄ NO ₃ (6484-52-2)	-	Yes	Yes	Ex
	Ammonium phosphate	(NH ₄) ₃ PO ₄ (10361-65-6)	-	Yes	Yes	Ex
	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	-	Yes	Yes	Ex
	Barium carbonate	BaCO ₃ (513-77-9)	-	Yes	Yes	Ex
	Barium chloride	BaCl ₂	-	Yes	Yes	Ex
	Barium sulfate	BaSO ₄ (7727-43-7)	-	Yes	Yes	Ex
	Barium sulphide	BaS (21109-95-5)	-	Yes	Yes	Ex
	Brines	N/A	-	Yes	Yes	Ex
	Bromine chloride	BrCl (13863-41-7)	-	Yes	Yes	Ex
	Calcium carbonate	CaCO ₃ (471-34-1)	-	Yes	Yes	Ex
	Calcium chloride	CaCl ₂ (10043-52-4)	-	Yes	Yes	Ex

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Salts	Calcium fluoride	CaF ₂ (7789-75-5)	-	Yes	Yes	Ex
	Calcium hypochlorite	Ca(ClO) ₂ (7778-54-3)	-	Yes	Yes	Ex
	Calcium sulphate	CaSO ₄ (7778-18-9)	-	Yes	Yes	Ex
	Chromium potassium sulphate (Chrome alum)	KCr(SO ₄) ₂ (10141-00-1)	-	Yes	Yes	Ex
	Copper acetate	Cu(CH ₃ COO) ₂ (142-71-2)	-	Yes	Yes	Ex
	Copper chloride	CuCl ₂ (7447-39-4)	-	Yes	Yes	Ex
	Copper nitrate	Cu(NO ₃) ₂ (3251-23-8)	-	Yes	Yes	Ex
	Copper sulphate	CuSO ₄ (7758-98-7)	-	Yes	Yes	Ex
	Ferric chloride (dry)	FeCl ₃ (7705-08-0)	-	Yes	Yes	Ex
	Ferric nitrate	Fe(NO ₃) ₃ (10421-48-4)	-	Yes	Yes	Ex
	Ferric sulfate	Fe ₂ (SO ₄) ₃ (10028-22-5)	-	Yes	Yes	Ex
	Ferrous chloride	FeCl ₂ (7758-94-3)	-	Yes	Yes	Ex
	Ferrous sulfate	FeSO ₄ (7720-78-7)	-	Yes	Yes	Ex
	Magnesium bisulfate	Mg(HSO ₄) ₂ (10028-26-9)	-	Yes	Yes	Ex
	Magnesium carbonate	MgCO ₃ (546-93-0)	-	Yes	Yes	Ex
	Magnesium chloride	MgCl ₂ (7786-30-3)	-	Yes	Yes	Ex
	Magnesium sulphate (Epsom salt)	MgSO ₄ (7487-88-9)	-	Yes	Yes	Ex
	Mercuric chloride	HgCl ₂ (7487-94-7)	-	Yes	Yes	Ex
	Mercuric cyanide	Hg(CN) ₂ (592-04-1)	-	Yes	Yes	Ex
	Nickel ammonium sulfate	(NH ₄) ₂ Ni(SO ₄) ₂ (7785-20-8)	-	Yes	Yes	Ex
Nickel chloride	NiCl ₂ (7718-54-9)	-	Yes	Yes	Ex	
Nickel nitrate	Ni(NO ₃) ₂ (13138-45-9)	-	Yes	Yes	Ex	
Nickel sulphate	NiSO ₄ (7786-81-4)	-	Yes	Yes	Ex	
Potassium bisulfite	KHSO ₃ (7773-03-7)	-	Yes	Yes	Ex	

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Salts	Potassium bromide	KBr (7758-02-3)	-	Yes	Yes	Ex
	Potassium carbonate	K ₂ CO ₃ (584-08-7)	-	Yes	Yes	Ex
	Potassium chlorate	KClO ₃ (3811-04-9)	-	Yes	Yes	Ex
	Potassium chloride	KCl (7447-40-7)	-	Yes	Yes	Ex
	Potassium cyanide	KCN (151-50-8)	-	Yes	Yes	Ex
	Potassium dichromate	K ₂ Cr ₂ O ₇ (7778-50-9)	-	Yes	Yes	Ex
	Potassium diphosphate	K ₂ HPO ₄ (7758-11-4)	-	Yes	Yes	Ex
	Potassium ferricyanide	K ₃ [Fe(CN) ₆] (13746-66-2)	-	Yes	Yes	Ex
	Potassium ferrocyanide	K ₄ [Fe(CN) ₆] (13943-58-3)	-	Yes	Yes	Ex
	Potassium iodide	KI (7681-11-0)	-	Yes	Yes	Ex
	Potassium nitrate	KNO ₃ (7757-79-1)	-	Yes	Yes	Ex
	Potassium permanganate	KMnO ₄ (7722-64-7)	-	Yes	Yes	Ex
	Potassium sulfate	K ₂ SO ₄ (7778-80-5)	-	Yes	Yes	Ex
	Potassium sulfide	K ₂ S (1312-73-8)	-	Yes	Yes	Ex
	Potassium sulphite	K ₂ SO ₃ (10117-38-1)	-	Yes	Yes	Ex
	Quaternary ammonium salts	N/A	-	Yes	Yes	Ex
	Silver nitrate	AgNO ₃ (7761-88-8)	-	Yes	Yes	Ex
	Sodium acetate	CH ₃ COONa (127-09-3)	-	Yes	Yes	Ex
	Sodium aluminate	NaAlO ₂ (1302-42-7)	-	Yes	Yes	Ex
	Sodium bicarbonate	NaHCO ₃ (144-55-8)	-	Yes	Yes	Ex
Sodium bisulfate	NaHSO ₄ (7681-38-1)	-	Yes	Yes	Ex	
Sodium bisulfite	NaHSO ₃ (7631-90-5)	-	Yes	Yes	Ex	
Sodium borate (Borax)	Na ₂ B ₄ O ₇ (1303-96-4)	-	Yes	Yes	Ex	
Sodium bromide	NaBr (7647-15-6)	-	Yes	Yes	Ex	

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Salts	Sodium carbonate (soda ash)	Na ₂ CO ₃ (497-19-8)	-	Yes	Yes	Ex
	Sodium chlorate	NaClO ₃ (7775-09-9)	-	Yes	Yes	Ex
	Sodium chloride	NaCl (7647-14-5)	-	Yes	Yes	Ex
	Sodium chromate	Na ₂ CrO ₄ (7775-11-3)	-	Yes	Yes	Ex
	Sodium cyanide	NaCN (143-33-9)	-	Yes	Yes	Ex
	Sodium fluoride	NaF (7681-49-4)	-	Yes	Yes	Ex
	Sodium fluorosilicate	Na ₂ SiF ₆ (16893-85-9)	-	Yes	Yes	Ex
	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	Yes	Yes	G
	Sodium metaphosphate	(NaPO ₃) ₆ (10124-56-8)	-	Yes	Yes	Ex
	Sodium metasilicate (sodium silicate)	Na ₂ SiO ₃ (6834-92-0)	-	Yes	Yes	Ex
	Sodium nitrate	NaNO ₃ (7631-99-4)	-	Yes	Yes	Ex
	Sodium phosphate (dibasic)	Na ₂ HPO ₄ (7558-79-4)	-	Yes	Yes	Ex
	Sodium phosphate (tribasic)	Na ₃ PO ₄ (7601-54-9)	-	Yes	Yes	Ex
	Sodium sulfate	Na ₂ SO ₄ (7757-82-6)	-	Yes	Yes	Ex
	Sodium sulfide	Na ₂ S (1313-82-2)	-	Yes	Yes	Ex
	Stannous chloride (tin chloride)	SnCl ₂ (7772-99-8)	-	Yes	Yes	Ex
	Zinc chloride	ZnCl ₂ (7646-85-7)	-	Yes	Yes	Ex
	Zinc hydrosulfite	ZnS ₂ O ₄ (7779-86-4)	-	Yes	Yes	Ex
Zinc sulfate	ZnSO ₄ (7733-02-0)	-	Yes	Yes	Ex	

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks <i>suitable for all applications including long-term immersion</i>
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks <i>suitable for short-term immersion and general chemical contact</i>
Moderate	M	no significant deterioration / barrier properties retained for 1 - 12 weeks <i>suitable for applications involving short-term chemical contact e.g. spillage, splashing or secondary containment</i>
Poor	P	significant deterioration / loss of barrier properties after 1 week or less <i>not suitable for any application</i>
Ex		Bold text highlights real life data obtained via chemical resistance testing
Ex		Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents
Note:		Chemical resistance ratings are assigned based on the ability of a Belzona product to resist chemical attack and/or protect the underlying substrate. Belzona cannot guarantee the purity of the chemical, appearance or colour stability following contact.

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. Nothing in the foregoing statement shall exclude or limit any liability of Belzona to the extent such liability cannot by law be excluded or limited.