

CHEMICAL RESISTANCE OF BELZONA® 5815

FN10222

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Resistance To (22 °C/72 °F)		Chemical Resistance Rating
				72 hours chemical exposure	Short term immersion (3 months exposure)	
Inorganic Acids	Carbonic acid	H ₂ CO ₃ (463-79-6)	-	Yes	Yes	G
	Hydrochloric acid	HCl (7647-01-0)	20%	Yes	No	P
			10%	Yes	No	P
			5%	Yes	No	M
			3%	Yes	No	M
	Nitric acid	HNO ₃ (7697-37-2)	10%	Yes	No	M
			5%	Yes	No	M
			1%	Yes	Yes	G
	Phosphoric acid (Orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	85%	No	No	P
			50%	Yes	No	M
			5%	Yes	No	M
	Sulphuric acid	H ₂ SO ₄ (7664-93-9)	50%	Yes	No	M
			20%	Yes	No	M
			5%	Yes	No	M
Organic Acids	Acetic acid (Ethanoic acid)	CH ₃ COOH (64-19-7)	1%	Yes	No	P
	Formic acid (Methanoic acid)	HCOOH (64-18-6)	1%	No	No	P
	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	30%	Yes	Yes	G
			10%	Yes	Yes	G
	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	No	No	P
	Salicylic acid	C ₇ H ₆ O ₃	10%	Yes	Yes	G
	Lactic acid	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4 /10326-41-7)	10%	Yes	No	M
			2%	Yes	Yes	M
	Phenol	C ₆ H ₅ OH (108-95-2)	80%	No	No	P
Alcohols	Ethanol (Ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Yes	Yes	G
	Isopropanol (2-Propanol)	(CH ₃) ₂ CHOH	-	Yes	No	M
	Ethylene glycol	(CH ₂ OH) ₂ (107-21-1)	-	Yes	Yes	G
	Glycerol (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)	-	No	No	P
	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Yes	Yes	G
	Tetraethylene Glycol (Tetraglycol)	HO(CH ₂ CH ₂ O) ₃ CH ₂ CH ₂ OH (112-60-7)	-	Yes	Yes	Ex

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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>
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Alkalis	Ammonia	NH ₃ (7664-41-7)	25%	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	G
Amines	Ethanolamine (2-aminoethanol)	C ₂ H ₇ NO (141-43-5)	-	Yes	Yes	G
	Triethanolamine (TEA) (2,2',2"- nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Yes	Yes	G
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	G
	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	Yes	M
	Whisky and Wine	N/A	-	Yes	Yes	Ex
	Yeast	N/A	-	Yes	Yes	Ex

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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
	Diocetyl adipate	C ₂₂ H ₄₂ O ₄ (123-79-5)	-	Yes	Yes	Ex
	Diocetyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Yes	Yes	Ex
	Diocetyl sebacate	(CH ₂) ₈ (COOC ₈ H ₁₇) ₂	-	Yes	Yes	Ex
	Glycol ether EB	CH ₃ (CH ₂) ₃ OCH ₂ CH ₂ OH (111-76-2)	-	Yes	No	P
	n-Butyl acetate	CH ₃ COO(CH ₂) ₃ CH ₃ (123-86-4)	-	No	No	P
	Tributyl phosphate	(CH ₃ CH ₂ CH ₂ CH ₂ O) ₃ PO (126-73-8)	-	Yes	Yes	Ex
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	Ex
	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	Ex
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Yes	Yes	Ex
	Sulphur trioxide (Sulfuric 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	G
	Gasoline – 10% Ethanol	N/A	-	Yes	No	P
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ C H ₃ (142-82-7)	-	Yes	Yes	G
	Iso-octane (2,2,4- trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Yes	Yes	Ex

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Hydrocarbons – Continuation	Kerosene	N/A (8008-20-6)	-	Yes	Yes	G
	Paraffin	N/A (8002-74-2)	-	Yes	Yes	Ex
	Isoparaffins	N/A	-	Yes	Yes	G
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	No	No	P
	Xylene	(CH ₃) ₂ C ₆ H ₄	-	No	No	P
	Naphtha	N/A	-	No	No	P
	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)	-	No	No	P
Ketones	Acetone	(CH ₃) ₂ CO (67-64-1)	-	No	No	P
	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	G
	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 – Hydraulic fluid	N/A	-	Yes	Yes	Ex
	Starch	N/A	-	Yes	Yes	Ex

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Miscellaneous - Continuation	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	G
Oils - Minerals	Castor oil	N/A	-	Yes	Yes	G
	Coconut oil	N/A	-	Yes	Yes	Ex
	Cod liver oil	N/A	-	Yes	Yes	Ex
	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	G
	Aluminium sulfate	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

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Salts - Continuation	Barium sulfide	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
	Calcium fluoride	CaF ₂ (7789-75-5)	-	Yes	Yes	Ex
	Calcium hypochlorite	Ca(ClO) ₂ (7778-54-3)	-	Yes	Yes	Ex
	Calcium sulfate	CaSO ₄ (7778-18-9)	-	Yes	Yes	Ex
	Chromium potassium sulfate (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 sulfate	CuSO ₄ (7758-98-7)	-	Yes	Yes	Ex
	Ferric chloride (dry)	FeCl ₃ (7705-08-0)	-	Yes	Yes	G
	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	G
	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 sulfate (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

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Salts - Continuation	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 sulfate	NiSO ₄ (7786-81-4)	-	Yes	Yes	Ex
	Potassium bisulfite	KHSO ₃ (7773-03-7)	-	Yes	Yes	Ex
	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 (1059-82-5)	-	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

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Salts - Continuation	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
	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)	10.25%	No	No	P
	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

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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

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