CHEMICAL RESISTANCE OF BELZONA® 4361

FN10152

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Resistance To: 72 hours chemical exposure	Resistance To: Short term immersion (3 months exposure)	Chemical Resistance Rating
Inorganic Acids	Fluorosilicic acid	H_2SiF_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_3PO_4 (7664-38-2)	43%	**Yes**	**No**	**M**
			25%	**Yes**	**Yes**	**G**
			15%	**Yes**	**Yes**	Ex
	Sulphuric acid	H_2SO_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_3COOH (64-19-7)	10%	**Yes**	**No**	**P**
			2%	**Yes**	**Yes**	**Ex**
	Citric acid	$C_6H_8O_7$ (77-92-9)	30%	**Yes**	**Yes**	Ex
	Cresylic acid (cresol)	C_7H_8O (1319-77-3)	-	Yes	Yes	G

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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)	$CH_3CH(OH)(COOH)$ (50-21-5/79-33-4/10326-41-7)	10%	**Yes**	**No**	**M**
			2%	**Yes**	**Yes**	**Ex**
	Salicylic acid	$C_6H_4(OH)COOH$ (69-72-7)	-	Yes	Yes	Ex
	Stearic acid (solid)	$CH_3(CH_2)_{16}CO_2H$ (57-11-4)	-	Yes	Yes	Ex
	Tannic acid	$C_{76}H_{52}O_{46}$ (1401-55-4)	-	Yes	Yes	Ex
	Tartaric acid	$HO_2CCH(OH)CH(OH)CO_2H$ (526-83-0)	-	Yes	Yes	Ex
Alcohols	Ethanol (ethyl alcohol)	CH_3CH_2OH (64-17-5)	-	**Yes**	**Yes**	**Ex**
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	$(CH_2OH)_2$ (107-21-1)	-	Yes	Yes	Ex
	Glycerol (glycerine, propane-1,2,3-triol)	$HOCH_2CH(OH)CH_2OH$ (56-81-5)	-	Yes	Yes	Ex
	1-Hexanol	$CH_3(CH_2)_5OH$ (111-27-3)	-	Yes	Yes	Ex
	Methanol (methyl alcohol)	CH_3OH (67-56-1)	-	**Yes**	**Yes**	**G**
	Propylene glycol (1,2-Propanediol)	$CH_3CH(OH)CH_2OH$ (57-55-6)	-	Yes	Yes	Ex
	Tetraethylene Glycol (tetraglycol)	$HO(CH_2CH_2O)_3CH_2CH_2OH$ (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_2H_7NO (141-43-5)	-	**Yes**	**No**	**P**
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	$N(CH_2CH_2OH)_3$ (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
	Dioctyl adipate	$C_{22}H_{42}O_4$ (123-79-5)	-	Yes	Yes	Ex
	Dioctyl phthalate	$C_6H_4(C_8H_{17}COO)_2$ (117-81-7)	-	Yes	Yes	Ex
	Dioctyl 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_4H_{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_2S (7783-06-4)	-	Yes	Yes	Ex
	Natural gas (methane)	CH_4	-	Yes	Yes	Ex
	Nitrous oxide (dinitrogen monoxide)	N_2O (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_6H_{12} (110-82-7)	-	Yes	Yes	G
	Gasoline – Ethanol free (Petrol)	N/A	-	**Yes**	**Yes**	**Ex**
	Heptane	$CH_3CH_2CH_2CH_2CH_2CH_2CH_3$ (142-82-7)	-	**Yes**	**Yes**	**Ex**
	Hexane	$CH_3CH_2CH_2CH_2CH_2CH_3$ (110-54-3)	-	Yes	Yes	Ex
	Iso-octane (2,2,4-trimethylpentane)	$(CH_3)_3CCH_2CH(CH_3)_2$ (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)	$C_6H_5CH_3$ (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)	$C_6H_4(CH_3)_2$ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	**Yes**	**Yes**	**Ex**
Ketones	Methyl ethyl ketone (MEK, butanone)	$CH_3C(O)CH_2CH_3$ (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	$C_3H_3NO_5$ (1003-07-2)	-	Yes	Yes	Ex
	Mesitylene (1,3,5-trimethylbenzene)	$C_6H_3(CH_3)_3$ (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	$(NH_4)_2SiF_6$ (16919-19-0)	-	Yes	Yes	Ex
	Ammonium nitrate	NH_4NO_3 (6484-52-2)	-	Yes	Yes	Ex
	Ammonium phosphate	$(NH_4)_3PO_4$ (10361-65-6)	-	Yes	Yes	Ex
	Ammonium sulfate	$(NH_4)_2SO_4$ (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	$Cu(CH_3COO)_2$ (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	$(NH_4)_2Ni(SO_4)_2$ (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_2CO_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	$K_2Cr_2O_7$ (7778-50-9)	-	Yes	Yes	Ex
	Potassium diphosphate	K_2HPO_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_2SO_4 (7778-80-5)	-	Yes	Yes	Ex
	Potassium sulfide	K_2S (1059-82-5)	-	Yes	Yes	Ex
	Potassium sulphite	K_2SO_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_3COONa (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)	$Na_2B_4O_7$ (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_2CO_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_2CrO_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_2SiF_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_2SiO_3 (6834-92-0)	-	Yes	Yes	Ex
	Sodium nitrate	$NaNO_3$ (7631-99-4)	-	Yes	Yes	Ex
	Sodium phosphate (dibasic)	Na_2HPO_4 (7558-79-4)	-	Yes	Yes	Ex
	Sodium phosphate (tribasic)	Na_3PO_4 (7601-54-9)	-	Yes	Yes	Ex
	Sodium sulfate	Na_2SO_4 (7757-82-6)	-	Yes	Yes	Ex
	Sodium sulfide	Na_2S (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_2O_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 *suitable for all applications including long-term immersion*
Good	**G**	no significant deterioration / barrier properties retained for 12 - 52 weeks *suitable for short-term immersion and general chemical contact*
Moderate	**M**	no significant deterioration / barrier properties retained for 1 - 12 weeks *suitable for applications involving short-term chemical contact e.g. spillage, splashing or secondary containment*
Poor	**P**	significant deterioration / loss of barrier properties after 1 week or less *not suitable for any application*
*		Product must be post cured to deliver quoted chemical resistance
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