

CHEMICAL RESISTANCE OF BELZONA® 4301

FN10208

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Service at 20°C (68°F)	Service at 40°C (104°F)
Inorganic Acids	Carbonic acid	H ₂ CO ₃ (463-79-6)	15%	Ex	Ex
	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	30%	Ex	Ex
			10%	Ex	Ex
	Hydrobromic acid	HBr (10035-10-6)	40%	Ex	Ex
			20%	Ex	Ex
			10%	Ex	Ex
	Hydrochloric acid	HCl (647-01-0)	37%	Ex	Ex
			20%	Ex	Ex
			10%	Ex	Ex
	Nitric acid	HNO ₃ (7697-37-2)	65%	P	P
20%			Ex*	G	
10%			Ex*	G	
Oleum	H ₂ SO ₄ · (SO ₃) _x (8014-95-7)	30%	M	M	
Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	85%	G*	G*	
		20%	G*	G*	
		10%	Ex	Ex	
Sulfuric acid	H ₂ SO ₄ (7664-93-9)	100%	P	P	
		98%	Ex	Ex*	
		50%	Ex	Ex*	
		20%	Ex	Ex*	
Organic Acids	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	30%	M*	M*
			20%	M*	M*
			10%	M	M
	Acrylic acid	CH ₂ =CHCO ₂ H (79-10-7)	-	G*	M*
	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	-	Ex	Ex
	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	Ex*	Ex*
	Formic acid (methanoic acid)	HCOOH (64-18-6)	10%	P	P
Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	88%	M	M	
		5%	Ex	Ex	
Phenol	C ₆ H ₅ OH (108-95-2)	-	P	P	

Excellent	Ex	No significant deterioration / barrier properties retained for greater than 52 weeks. <i>suitable for all applications including long term immersion</i>
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Alcohols	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex	Ex
	2-Ethoxyethanol (Cellosolve)	C ₄ H ₁₀ O ₂ (110-80-5)	-	Ex	Ex
	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex	Ex
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex	Ex
	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex	Ex
	1-Hexanol	CH ₃ (CH ₂) ₅ OH (111-27-3)	-	Ex	Ex
	Isobutanol	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex	Ex
	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	M	M
	2-Methoxyethanol	C ₃ H ₈ O ₂ (109-86-4)	-	Ex	Ex
	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex	Ex
Alkalis	Ammonia	NH ₃ (7664-41-7)	25%	Ex	Ex
			10%	Ex	Ex
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	40%	Ex	Ex
			20%	Ex	Ex
			10%	Ex	Ex
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	50%	Ex	Ex
40%			Ex	Ex	
20%			Ex	Ex	
Amines & Amides	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	Ex
	Diethylenetriamine (DETA)	HN(CH ₂ CH ₂ NH ₂) ₂ (111-40-0)	-	P	P
	Dimethylformamide (DMF)	(CH ₃) ₂ NC(O)H (68-12-2)	-	P	P
	Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol)	H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OH (929-06-6)	-	Ex*	Ex*
	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex	Ex

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Amines & Amides continued	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	Ex*	Ex*
	Pyridine	C ₅ H ₅ N (110-86-1)	-	M	M
	Sulphanol solution (50% diisopropanolamine, 25% tetramethylene sulphone, 25% water)	N/A	-	Ex	Ex
	Triethanolamine (TEA) (2,2',2''-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex	Ex
	Triethylenetetramine (TETA)	[CH ₂ NHCH ₂ CH ₂ NH ₂] ₂ (112-24-3)	-	M	M
Beverages & Foodstuffs	Apple juice	-	-	Ex	Ex
	Beer	-	-	Ex	Ex
	Beet sugar	-	-	Ex	Ex
	Butter	-	-	Ex	Ex
	Buttermilk	-	-	Ex	Ex
	Cider	-	-	Ex	Ex
	Citrus juices	-	-	Ex	Ex
	Fermentation liquor	-	-	Ex	Ex
	Glucose	-	-	Ex	Ex
	Ketchup	-	-	Ex	Ex
	Margarine	-	-	Ex	Ex
	Mayonnaise	-	-	Ex	Ex
	Milk	-	-	Ex	Ex
	Molasses	-	-	Ex	Ex
	Mustard	-	-	Ex	Ex
	Salad Oil	-	-	Ex	Ex
	Sugar liquids	-	-	Ex	Ex
	Tomato juice	-	-	Ex	Ex
	Vinegar	-	-	Ex	Ex
Whisky and Wine	-	-	Ex	Ex	
Yeast	-	-	Ex	Ex	

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Esters & Ethers	Amyl acetate	CH ₃ COO(CH ₂) ₄ CH ₃ (628-63-7)	-	Ex	Ex
	Butyl acetate	C ₆ H ₁₂ O ₂ (123-86-4)	-	Ex	Ex
	N-Butyl ether	C ₈ H ₁₈ O (142-96-1)	-	Ex	Ex
	Dibutyl phthalate	C ₁₆ H ₂₂ O ₄ (84-74-2)	-	Ex	Ex
	Dibutyl sebacate	C ₁₈ H ₃₄ O ₄ (109-43-3)	-	Ex	Ex
	Diethyl ether	(C ₂ H ₅) ₂ O (60-29-7)	-	Ex	Ex
	Diocetyl adipate	C ₂₂ H ₄₂ O ₄ (123-79-5)	-	Ex	Ex
	Diocetyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Ex	Ex
	Diocetyl sebacate	(CH ₂) ₈ (COOC ₈ H ₁₇) ₂ (2432-87-3)	-	Ex	Ex
	Ethyl acetate	CH ₃ COOCH ₂ CH ₃ (141-78-6)	-	Ex	Ex
	Methyl acetate	CH ₃ COOCH ₃ (79-20-9)	-	Ex	Ex
	Propylene glycol monomethyl ether acetate	CH ₃ CO ₂ CH(CH ₃)CH ₂ OCH ₃ (108-65-6)	-	Ex	Ex
	Tributyl phosphate	(CH ₃ CH ₂ CH ₂ CH ₂ O) ₃ PO (126-73-8)	-	Ex	Ex
Gases	Butane	C ₄ H ₁₀ (106-97-8)	-	Ex	Ex
	Carbon dioxide	CO ₂ (124-38-9)	-	Ex	Ex
	Carbon monoxide	CO (630-08-0)	-	Ex	Ex
	Chlorine gas	Cl ₂ (7782-50-5)	-	G	G
	Hydrogen gas	H ₂ (1333-74-0)	-	Ex	Ex
	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Ex	Ex
	Natural Gas (Methane)	CH ₄ (74-82-8)	-	Ex	Ex
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Ex	Ex
	Ozone (aqueous solution)	O ₃ (10028-15-6)	-	G	G
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	Ex
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	Ex

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Halocarbons	Chlorobenzene	C ₆ H ₅ Cl (108-90-7)	-	Ex	Ex
	Chloroform	CHCl ₃ (67-66-3)	-	P	P
	Methylene chloride (dichloromethane)	CH ₂ Cl ₂ (75-09-2)	-	P	P
Hydrocarbons	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	Ex
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Ex	Ex
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Ex	Ex
	Gasoline (petrol)	N/A (8032-32-4)	-	Ex	Ex
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex	Ex
	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	Ex	Ex
	Iso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Ex	Ex
	Kerosene	N/A (8008-20-6)	-	Ex	Ex
	Mesitylene (1,3,5-trimethylbenzene)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	Ex	Ex
	Naphtha	N/A (8030-30-6)	-	Ex	Ex
	Naphthalene	C ₁₀ H ₈ (91-20-3)	-	Ex	Ex
	Paraffin	N/A (8002-74-2)	-	Ex	Ex
	Styrene	C ₆ H ₅ CH=CH ₂ (100-42-5)	-	Ex	Ex
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex	Ex
	Turpentine	N/A (8006-64-2)	-	Ex	Ex
	White Spirit (Stoddard solvent, Mineral spirits)	N/A (8052-41-3)	-	Ex	Ex
Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex	Ex	
Ketones & Aldehydes	Acetone	(CH ₃) ₂ CO (67-64-1)	-	Ex	Ex*
	Formaldehyde	HCHO (50-00-0)	37%	P	P
	Propionaldehyde	CH ₃ CH ₂ CHO (123-38-6)	-	P	P
	Methyl amyl ketone (2-Heptanone)	C ₇ H ₁₄ O (110-43-0)	-	Ex	Ex
	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Ex	Ex*

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Miscellaneous	Brake fluid	-	-	Ex	Ex
	Bromine water (saturated)	-	-	G	G
	Emulsion paint	-	-	Ex	Ex
	Fertilizer solutions	-	-	Ex	Ex
	Grease	-	-	Ex	Ex
	Ink (water based)	-	-	Ex	Ex
	Isothiazolinone	C ₃ H ₃ NOS (1003-07-2)	-	Ex	Ex
	N-Methylpyrrolidone (NMP)	C ₅ H ₉ NO (872-50-4)	-	M	M
	Resins & rosins (natural)	-	-	Ex	Ex
	Roof pitch	-	-	Ex	Ex
	Rubber latex emulsions	-	-	Ex	Ex
	Sewage	-	-	Ex	Ex
	Sodium hypochlorite (bleach)	NaOCl (7681-52-9)	10%	G	G
	Starch	(C ₆ H ₁₀ O ₅) _n (9005-25-8)	-	Ex	Ex
	Tar	-	-	Ex	Ex
	Tetraethyl lead	(CH ₃ CH ₂) ₄ Pb (78-00-2)	-	Ex	Ex
	Tetrahydrofuran	(CH ₂) ₄ O (109-99-9)	-	G	G
	Urea	CO(NH ₂) ₂ (57-13-6)	32%	Ex	Ex
Water (deionised, distilled, fresh & sea)	H ₂ O (7732-18-5)	-	Ex	Ex	
Oils - Mineral	Castor oil	-	-	Ex	Ex
	Coconut oil	-	-	Ex	Ex
	Cod liver oil	-	-	Ex	Ex
	Corn oil	-	-	Ex	Ex
	Diesel oil	-	-	Ex	Ex
	Hydraulic oil	-	-	Ex	Ex
	Lubricating oil	-	-	Ex	Ex
	Oil, petroleum	-	-	Ex	Ex
	Oil/water mixtures	-	-	Ex	Ex
	Silicone oil	-	-	Ex	Ex
Soybean oil	-	-	Ex	Ex	

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Salt Solutions (All Concentrations)	Aluminium chloride	AlCl ₃ (7446-70-0)	-	Ex	Ex
	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	-	Ex	Ex
	Ammonium bicarbonate	(NH ₄)HCO ₃ (1066-33-7)	-	Ex	Ex
	Ammonium fluorosilicate	(NH ₄) ₂ SiF ₆ (16919-19-0)	-	Ex	Ex
	Ammonium nitrate	NH ₄ NO ₃ (6484-52-2)	-	Ex	Ex
	Ammonium phosphate	(NH ₄) ₃ PO ₄ (10361-65-6)	-	Ex	Ex
	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	-	Ex	Ex
	Barium carbonate	BaCO ₃ (513-77-9)	-	Ex	Ex
	Barium chloride	BaCl ₂ (10361-37-2)	-	Ex	Ex
	Barium sulfate	BaSO ₄ (7727-43-7)	-	Ex	Ex
	Barium sulphide	BaS (21109-95-5)	-	Ex	Ex
	Bromine chloride	BrCl (13863-41-7)	-	Ex	Ex
	Calcium carbonate	CaCO ₃ (471-34-1)	-	Ex	Ex
	Calcium chloride	CaCl ₂ (10043-52-4)	-	Ex	Ex
	Calcium fluoride	CaF ₂ (7789-75-5)	-	Ex	Ex
	Calcium hypochlorite	Ca(ClO) ₂ (7778-54-3)	-	Ex	Ex
	Calcium sulphate	CaSO ₄ (7778-18-9)	-	Ex	Ex
	Chromium potassium sulphate (Chrome alum)	KCr(SO ₄) ₂ (10141-00-1)	-	Ex	Ex
	Copper acetate	Cu(CH ₃ COO) ₂ (142-71-2)	-	Ex	Ex
	Copper chloride	CuCl ₂ (7447-39-4)	-	Ex	Ex
	Copper nitrate	Cu(NO ₃) ₂ (3251-23-8)	-	Ex	Ex
	Copper sulphate	CuSO ₄ (7758-98-7)	-	Ex	Ex
	Ferric chloride	FeCl ₃ (7705-08-0)	-	Ex	Ex
	Ferric nitrate	Fe(NO ₃) ₃ (10421-48-4)	-	Ex	Ex
	Ferric sulfate	Fe ₂ (SO ₄) ₃ (10028-22-5)	-	Ex	Ex
Ferrous chloride	FeCl ₂ (7758-94-3)	-	Ex	Ex	

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Salt Solutions (All Concentrations) continued	Ferrous sulfate	FeSO ₄ (7720-78-7)	-	Ex	Ex
	Magnesium bisulfate	Mg(HSO ₄) ₂ (10028-26-9)	-	Ex	Ex
	Magnesium carbonate	MgCO ₃ (546-93-0)	-	Ex	Ex
	Magnesium chloride	MgCl ₂ (7786-30-3)	-	Ex	Ex
	Magnesium sulphate (Epsom salt)	MgSO ₄ (7487-88-9)	-	Ex	Ex
	Mercuric chloride	HgCl ₂ (7487-94-7)	-	Ex	Ex
	Mercuric cyanide	Hg(CN) ₂ (592-04-1)	-	Ex	Ex
	Nickel ammonium sulfate	(NH ₄) ₂ Ni(SO ₄) ₂ (7785-20-8)	-	Ex	Ex
	Nickel chloride	NiCl ₂ (7718-54-9)	-	Ex	Ex
	Nickel nitrate	Ni(NO ₃) ₂ (13138-45-9)	-	Ex	Ex
	Nickel sulphate	NiSO ₄ (7786-81-4)	-	Ex	Ex
	Potassium bisulfite	KHSO ₃ (7773-03-7)	-	Ex	Ex
	Potassium bromide	KBr (7758-02-3)	-	Ex	Ex
	Potassium carbonate	K ₂ CO ₃ (584-08-7)	-	Ex	Ex
	Potassium chlorate	KClO ₃ (3811-04-9)	-	Ex	Ex
	Potassium chloride	KCl (7447-40-7)	-	Ex	Ex
	Potassium cyanide	KCN (151-50-8)	-	Ex	Ex
	Potassium dichromate	K ₂ Cr ₂ O ₇ (7778-50-9)	-	Ex	Ex
	Potassium diphosphate	K ₂ HPO ₄ (7758-11-4)	-	Ex	Ex
	Potassium ferricyanide	K ₃ [Fe(CN) ₆] (13746-66-2)	-	Ex	Ex
	Potassium ferrocyanide	K ₄ [Fe(CN) ₆] (13943-58-3)	-	Ex	Ex
	Potassium iodide	KI (7681-11-0)	-	Ex	Ex
	Potassium nitrate	KNO ₃ (7757-79-1)	-	Ex	Ex
	Potassium permanganate	KMnO ₄ (7722-64-7)	-	Ex	Ex
	Potassium sulfate	K ₂ SO ₄ (7778-80-5)	-	Ex	Ex
	Potassium sulfide	K ₂ S (1059-82-5)	-	Ex	Ex
Potassium sulphite	K ₂ SO ₃ (10117-38-1)	-	Ex	Ex	

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Salt Solutions (All Concentrations) continued	Silver nitrate	AgNO ₃ (7761-88-8)	-	Ex	Ex
	Sodium acetate	CH ₃ COONa (127-09-3)	-	Ex	Ex
	Sodium aluminate	NaAlO ₂ (1302-42-7)	-	Ex	Ex
	Sodium bicarbonate	NaHCO ₃ (144-55-8)	-	Ex	Ex
	Sodium bisulfate	NaHSO ₄ (7681-38-1)	-	Ex	Ex
	Sodium bisulfite	NaHSO ₃ (7631-90-5)	-	Ex	Ex
	Sodium borate (borax)	Na ₂ B ₄ O ₇ (1303-96-4)	-	Ex	Ex
	Sodium bromide	NaBr (7647-15-6)	-	Ex	Ex
	Sodium carbonate (soda ash)	Na ₂ CO ₃ (497-19-8)	-	Ex	Ex
	Sodium chlorate	NaClO ₃ (7775-09-9)	-	Ex	Ex
	Sodium chloride	NaCl (7647-14-5)	-	Ex	Ex
	Sodium chromate	Na ₂ CrO ₄ (7775-11-3)	-	Ex	Ex
	Sodium cyanide	NaCN (143-33-9)	-	Ex	Ex
	Sodium fluoride	NaF (7681-49-4)	-	Ex	Ex
	Sodium fluorosilicate	Na ₂ SiF ₆ (16893-85-9)	-	Ex	Ex
	Sodium metaphosphate	(NaPO ₃) ₆ (10124-56-8)	-	Ex	Ex
	Sodium metasilicate (sodium silicate)	Na ₂ SiO ₃ (6834-92-0)	-	Ex	Ex
	Sodium nitrate	NaNO ₃ (7631-99-4)	-	Ex	Ex
	Sodium phosphate (dibasic)	Na ₂ HPO ₄ (7558-79-4)	-	Ex	Ex
	Sodium phosphate (tribasic)	Na ₃ PO ₄ (7601-54-9)	-	Ex	Ex
Sodium sulfate	Na ₂ SO ₄ (7757-82-6)	-	Ex	Ex	
Sodium sulfide	Na ₂ S (1313-82-2)	-	Ex	Ex	
Stannous chloride (tin chloride)	SnCl ₂ (7772-99-8)	-	Ex	Ex	
Zinc chloride	ZnCl ₂ (7646-85-7)	-	Ex	Ex	
Zinc sulfate	ZnSO ₄ (7733-02-0)	-	Ex	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 applications</i>
*		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