CHEMICAL RESISTANCE OF BELZONA® 1392

FN10035

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Chemical Resistance 20 ˚C 68 ˚F	60 ˚C 140 ˚F	90 ˚C 194 ˚F	Other
Inorganic Acids	Hydrochloric acid	HCl (7647-01-0)	36%	G*	G	**P**	-
			20%	Ex*	G	**P**	-
			10%	Ex*	G	**M**	-
			5%	Ex	Ex	**Ex**	-
			3%	Ex	Ex	**Ex**	-
	Nitric acid	HNO_3 (7697-37-2)	69%	P*	P	**P**	-
			50%	M*	P	**P**	-
			20%	Ex*	M	**P**	-
			10%	Ex*	G	**P**	-
			5%	Ex*	G	**M**	-
	Nitrous acid	HNO_2 (7782-77-6)	20%	Ex*	M	P	-
	Phosphoric acid (orthophosphoric acid)	H_3PO_4 (7664-38-2)	85%	G*	P	P	-
			40%	Ex*	G	P	-
			20%	Ex*	G	P	-
			10%	Ex*	Ex	M	-
			5%	Ex	Ex	M	-
	Sulphuric acid	H_2SO_4 (7664-93-9)	98%	G*	M	**P**	-
			70%	Ex*	Ex	**G**	-
			50%	Ex*	Ex	**G**	-
			30%	Ex*	Ex	**G**	-
			20%	Ex*	Ex	**G**	-
			10%	Ex*	Ex	G	-
			5%	Ex	Ex	**Ex**	-

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Organic Acids	Acetic acid (ethanoic acid)	CH_3COOH (64-19-7)	100%	M*	P	P	-
			70%	M*	P	P	-
			50%	**M***	P	P	-
			20%	**M**	M	P	-
			10%	**G**	G	M	-
			5%	**Ex**	G	**G**	-
			2%	**Ex**	G	**G**	-
			1%	Ex	Ex	**Ex**	-
			0.1%	Ex	Ex	**Ex**	-
	Acrylic acid (propenoic acid)	$CH_2CHCOOH$ (79-10-7)	-	M*	P	P	-
	Carbonic acid	H_2CO_3 (463-79-6)	-	Ex	Ex	Ex	-
	Cresol (methylphenol, cresylic acid)	$CH_3(C_6H_4)OH$ (95-48-7/108-39-4/106-44-5/1319-77-3)	-	M*	P	P	-
	Benzenediol (hydroquinone, resorcinol, catechol)	$C_6H_4(OH)_2$ (120-80-9)	-	M*	P	P	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	P*	P	P	-
			10%	M*	P	P	-
	Lactic acid (2-hydroxypropanoic acid)	$CH_3CH(OH)(COOH)$ (50-21-5/79-33-4/10326-41-7)	85%	M*	P	P	-
			10%	G*	G	M	-
	Maleic acid (butenedioic acid)	$(CHCOOH)_2$ (110-16-7)	-	M*	P	P	-
	Methacrylic acid (MAA) (methylpropanoic acid)	$CH_2C(CH_3)(COOH)$ (79-41-4)	-	Ex*	G	P	-

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Organic Acids	Phenol (hydroxybenzene)	C6H5OH (108-95-2)	80%	M*	P	P	-
	Stearic acid (octadecanoic acid)	CH3(CH2)16COOH (57-11-4)	-	Ex*	G	G	-
	Tannic acid	C76H52O46 (1401-55-4)	-	Ex*	G	G	-
Alcohols, Aldehydes and Ketones	Acetone (propanone)	$(CH_3)_2CO$ (67-64-1)	-	Ex*	-	-	55˚C 131˚F Ex*
	Amyl alcohol	$C_5H_{11}OH$ (71-41-0)	-	Ex	Ex	Ex	-
	n-Butanol (butyl alcohol)	C_4H_9OH (71-36-3)	-	Ex	Ex	Ex	-
	Ethanol (ethyl alcohol)	CH_3CH_2OH (64-17-5)	-	Ex	Ex	-	-
	Ethyl cellosolve (2-ethoxyethanol, ethylene glycol monoethyl ether, ethyl glycol)	$CH_3CH_2OCH_2CH_2OH$ (110-80-5)	-	Ex	Ex	Ex	-
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	$(CH_2OH)_2$ (107-21-1)	-	Ex	Ex	**Ex**	-
	Formaldehyde (methanal)	CH_2O (50-00-0)	37%	Ex*	G	G	-
	Glycerol (glycerine, propane-1,2,3-triol)	$HOCH_2CH(OH)CH_2OH$ (56-81-5)	-	Ex	Ex	Ex	-
	n-Hexanol (hexyl alcohol)	$C_6H_{13}OH$ (111-27-3)	-	Ex	Ex	Ex	-
	Higher alcohols	$C_nH_{(2n+1)}OH$ where n > 2	-	Ex	Ex	Ex	-
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	$CH_3CH(OH)CH_3$ (67-63-0)	-	Ex	Ex	-	-

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Alcohols, Aldehydes and Ketones	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH3)2CHCH2OH (78-83-1)	-	Ex	Ex	**Ex**	-
	Methanol (methyl alcohol)	CH3OH (67-56-1)	-	Ex*	Ex	-	-
	Methanol solution (aqueous)	$CH_3OH_{(aq)}$ (67-56-1)	55%	Ex*	Ex	-	**79˚C 174˚F Ex**
	Methyl cellosolve (2-methoxyethanol, ethylene glycol monomethyl ether, methyl glycol)	$CH_3OCH_2CH_2OH$ (109-86-4)	-	Ex	Ex	Ex	-
	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	$CH_3C(O)CH_2CH_3$ (78-93-3)	-	Ex*	Ex	-	-
	Methyl pentyl ketone (methyl n-amyl ketone, heptan-2-one)	$CH_3COCH_2CH_2CH_2CH_2CH_3$ (110-43-0)	-	Ex	Ex	G	-
	N-methyl-2-pyrrolidinone (NMP)	C_5H_9NO (872-50-4)	-	G*	P	P	-
	Propan-1-ol (Propyl alcohol)	$CH_3CH_2CH_2OH$ (71-23-8)	-	Ex	Ex	Ex	-
	Propylene glycol (1,2-Propanediol)	$CH_3CH(OH)CH_2OH$ (57-55-6)	-	Ex	Ex	Ex	-
	Secondary alcohols	R_1R_2CHOH	-	Ex	Ex	Ex	-
	Tertiary alcohols	$R_1R_2R_3COH$	-	Ex	Ex	Ex	-
	Triethylene glycol (triglycol)	$HOCH_2CH_2OCH_2CH_2OCH_2CH_2OH$ (112-27-6)	-	Ex	Ex	Ex	-
	Tetraethylene glycol (tetraglycol)	$HOCH_2CH_2OCH_2CH_2OCH_2CH_2OCH_2CH_2OH$ (112-60-7)	-	Ex	Ex	Ex	-

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Alkalis / Bases	Ammonia solution (ammonium hydroxide)	$NH_{3\ (aq)}$ (1336-21-6)	30%	M*	-	-	-
			20%	Ex*	-	-	-
			10%	Ex*	-	-	-
	Barium hydroxide	$Ba(OH)_2$ (17194-00-2)	-	Ex	Ex	Ex	-
	Calcium hydroxide (lime water)	$Ca(OH)_2$ (1305-62-0)	-	Ex	Ex	Ex	-
	Magnesium hydroxide (milk of magnesia)	$Mg(OH)_2$ (1309-42-8)	-	Ex	Ex	Ex	-
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	40%	Ex	Ex	Ex	-
			20%	Ex	Ex	Ex	-
			10%	Ex	Ex	Ex	-
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	50%	Ex	Ex	Ex	-
			40%	Ex	Ex	**Ex**	-
			20%	Ex	Ex	Ex	-
			10%	Ex	Ex	Ex	-
Amines & Amides	Aniline (phenylamine)	$C_6H_5NH_2$ (62-53-3)	-	Ex*	G	M	-
	Dibutylamine	$HN(CH_2CH_2CH_2CH_3)_2$ (111-92-2)	-	G*	M	P	-
	Diethanolamine (DEA) (2,2'-iminodiethanol)	$HN(CH_2CH_2OH)_2$ (111-42-2)	-	Ex	Ex	**Ex**	-
	Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol)	$H_2NCH_2CH_2OCH_2CH_2OH$ (929-06-6)	-	Ex	Ex	Ex	-
	N-Methyl diethanolamine (MDEA)	$CH_3N(CH_2CH_2OH)_2$ (105-59-9)	-	Ex	Ex	**Ex**	-

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Amines & Amides	N-Methylethanolamine (2-methylaminoethanol)	$CH_3NHCH_2CH_2OH$ (109-83-1)	-	Ex	Ex	**Ex**	-
	Monoethanolamine (MEA) (2-aminoethanol)	$H_2NCH_2CH_2OH$ (141-43-5)	-	Ex	Ex	**Ex**	-
	Pyridine	C_5H_5N (110-86-1)	-	M*	P	P	-
	Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulphone, 25% water)	N/A	-	Ex	Ex	**Ex**	-
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	$N(CH_2CH_2OH)_3$ (102-71-6)	-	Ex	Ex	Ex	-
Esters and Ethers	Butyl acetate (butyl ethanoate)	$CH_3C(O)OCH_2CH_2CH_2CH_3$ (123-86-4)	-	Ex	Ex	Ex	-
	Butyl ether (dibutyl ether)	$CH_3CH_2CH_2CH_2O\ CH_2CH_2CH_2CH_3$ (142-96-1)	-	Ex	Ex	Ex	-
	dibutyl adipate (adipic acid dibutyl ester, Dibutyl hexanedioate)	$(CH_2CH_2C(O)OCH_2CH_2CH_2CH_3)_2$ (105-99-7)	-	Ex	Ex	Ex	-
	Dibutyl phthalate (DBP) (phthalic acid dibutyl ester)	$C_6H_4(C(O)OCH_2CH_2CH_2CH_3)_2$ (84-74-2)	-	Ex	Ex	Ex	-
	Dibutyl sebacate (DBS) (sebacic acid dibutyl ester)	$(CH_2CH_2CH_2CH_2C(O)OCH_2CH_2CH_2CH_3)_2$ (109-43-3)	-	Ex	Ex	Ex	-
	Diethyl ether (ether, ethoxyethane)	$CH_3CH_2OCH_2CH_3$ (60-29-7)	-	Ex	-	-	-
	Dioctyl adipate (DOA) (bis(2-ethylhexyl) adipate)	$(CH_2CH_2C(O)O(CH_2)_7CH_3)_2$ (103-23-1)	-	Ex	Ex	Ex	-
	Dioctyl phthalate (DOP) (bis(2-ethylhexyl) phthalate, DEHP)	$C_6H_4(C(O)OCH_2CH(CH_2CH_3)CH_2CH_2CH_2CH_3)_2$ (117-81-7)	-	Ex	Ex	Ex	-
	Dioctyl sebacate (di(2-ethylhexyl) sebacate)	$((CH_2)_4C(O)OCH_2CH(CH_2CH_3)CH_2CH_2CH_2CH_3)_2$ (122-62-3)	-	Ex	Ex	Ex	-

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Esters and Ethers	Ethyl acetate (ethyl ethanoate, acetic ester)	$CH_3C(O)OCH_2CH_3$ (141-78-6)	-	Ex*	Ex	-	-
	Ethyl 3-ethoxypropionate (EEP solvent)	$CH_3CH_2OCH_2CH_2C(O)OCH_2CH_3$ (763-69-9)	-	Ex	Ex	Ex	-
	Isopropyl ether (diisopropyl ether)	$(CH_3)_2CHOCH(CH_3)_2$ (108-20-3)	-	Ex	Ex	Ex	-
	Pentyl acetate (amyl acetate, pentyl ethanoate, pear oil)	$CH_3C(O)OCH_2CH_2CH_2CH_2CH_3$ (628-63-7)	-	Ex	Ex	Ex	-
	Propylene glycol monomethyl ether acetate (PMA)	$CH_3OCH_2CH(CH_3)OC(O)CH_3$ (108-65-6)	-	Ex	Ex	Ex	-
Gases	Butane	$CH_3CH_2CH_2CH_3$ (106-97-8)	-	Ex	Ex	Ex	-
	Carbon dioxide	CO_2 (124-38-9)	-	Ex	Ex	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	Ex	Ex	-
	Chlorine (dry)	Cl_2 (7782-50-5)	-	Ex	Ex	Ex	-
	Ethane	C_2H_6 (74-84-0)	-	Ex	Ex	Ex	-
	Hydrogen	H_2 (1333-74-0)	-	Ex	Ex	Ex	-
	Hydrogen sulphide	H_2S (7783-06-4)	-	Ex	Ex	Ex	-
	Methane (natural gas)	CH_4 (74-82-8)	-	Ex	Ex	Ex	-
	Nitrogen	N_2 (7727-37-9)	-	Ex	Ex	Ex	-

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Gases	Nitrous oxide (dinitrogen monoxide)	N_2O (10024-97-2)	-	Ex	Ex	Ex	-
	Ozone (dry)	O_3 (10028-15-6)	-	Ex	Ex	Ex	-
	Ozone (wet)	O_3 (10028-15-6)	-	G*	M	M	-
	Sulphur dioxide	SO_2 (7446-09-5)	-	Ex	Ex	Ex	-
	Sulphur trioxide (sulphuric anhydride)	SO_3 (7446-11-9)	-	Ex	Ex	Ex	-
Halocarbons	Carbon tetrachloride (tetrachloromethane)	CCl_4 (56-23-5)	-	Ex*	G	-	-
	Chlorobenzene (benzene chloride, phenyl chloride)	C_6H_5Cl (108-90-7)	-	Ex*	G	G	-
	Chloroform (trichloromethane)	$HCCl_3$ (67-66-3)	-	Ex*	-	-	-
	Dichloroethane (ethylene dichloride / ethylidene dichloride)	$ClCH_2CH_2Cl$ / CH_3CHCl_2 (107-06-2/75-34-3)	-	Ex*	G	-	-
	Dichloromethane (DCM) (methylene chloride)	CH_2Cl_2 (75-09-2)	-	Ex*	-	-	-
	Perchloroethylene (tetrachloroethylene)	C_2Cl_4 (127-18-4)	-	Ex*	G	G	-
	1,1,1-Trichloroethane (methyl chloroform, chlorothene)	CH_3CCl_3 (71-55-6)	-	Ex*	G	-	-
	Trichloroethylene (trichloroethene, TCE)	Cl_2CCHCl (79-01-6)	-	Ex*	G	-	-

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Hydrocarbons	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	Ex	Ex	-
	Benzene (benzol)	C_6H_6 (71-43-2)	-	Ex	Ex	-	-
	Cyclohexane	C_6H_{12} (110-82-7)	-	Ex	Ex	-	-
	Gasoline (without Ethanol) (petrol)	N/A (8032-32-4)	-	Ex	Ex	Ex	-
	Heptane	$CH_3CH_2CH_2CH_2CH_2CH_2CH_3$ (142-82-7)	-	Ex	Ex	Ex	-
	Hexane	$CH_3CH_2CH_2CH_2CH_2CH_3$ (110-54-3)	-	Ex	Ex	-	-
	Iso-octane (2,2,4-trimethylpentane)	$(CH_3)_3CCH_2CH(CH_3)_2$ (540-84-1)	-	Ex	Ex	Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex	Ex	Ex	-
	Mesitylene (1,3,5-Trimethylbenzene)	$C_6H_3(CH_3)_3$ (108-67-8)	-	Ex	Ex	Ex	-
	Mineral spirits / White spirits (Stoddard solvent)	N/A (8052-41-3)	-	Ex	Ex	Ex	-
	Naphtha	N/A (8030-30-6)	-	Ex	Ex	Ex	-
	Naphthalene (naphthalin, white tar)	$C_{10}H_8$ (91-20-3)	-	Ex	Ex	Ex	-
	Paraffin	N/A (8002-74-2)	-	Ex	Ex	Ex	-

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	Toluene (methylbenzene, phenylmethane, toluol)	$C_6H_5CH_3$ (108-88-3)	-	Ex	Ex	**Ex**	-
	Styrene (vinylbenzene, phenylethene)	$C_6H_5CHCH_2$ (100-42-5)	-	Ex	Ex	G	-
	Xylene (dimethyl benzene, xylol)	$C_6H_4(CH_3)_2$ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex	Ex	**Ex**	-
Miscellaneous	Water	H_2O (7732-18-5)	-	Ex	Ex	Ex	**120˚C 248˚F Ex**
	Nalco DVE4D002 Corrosion Inhibitor	N/A	-	Ex	Ex	-	-
	Nalco DVE4D006 Corrosion Inhibitor	N/A	-	Ex	Ex	-	-
	Nalco EC1317A Corrosion inhibitor	N/A	-	Ex	**Ex**	-	-
	Nalco EC6303A Oxygen Scavenger	N/A	-	Ex	Ex	-	-
	Nalco EC6481A Hydrate Inhibitor	N/A	-	Ex	Ex	-	-
	Nalco EC6622A Low Dosage Hydrate Inhibitor (LDHI)	N/A	-	Ex	**Ex**	-	-
	Nalco EC9356A Hydrogen Sulphide Scavenger	N/A	-	Ex	Ex	-	-
	Nalco O3VD123 Corrosion Inhibitor	N/A	-	Ex	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

CHEMICAL RESISTANCE OF BELZONA® 1392

FN10035

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	Chemical Resistance 20 ˚C 68 ˚F	60 ˚C 140 ˚F	90 ˚C 194 ˚F	Other
Miscellaneous	Nalco Ultimer 7751 Flocculant Water Treatment	N/A	-	Ex	Ex	-	-
	Sour oil / Brine mix	N/A	-	Ex	Ex	Ex	**120˚C 248˚F 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