CHEMICAL RESISTANCE OF BELZONA® 1511





	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20°C 68°F	60°C 140°F	90°C 194°F
Inorganic Acids	Hydrochloric acid	(0.0 number)	10%	G*	M	Р
		HCI	5%	Ex*	G	м
		(7647-01-0)	1%	Ex	G	G
		HNO ₃	10%	М	Р	Р
	Nitric acid	(7697-37-2)	5%	G*	М	М
	Phosphoric acid	10%	М	М	Р	
	(orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	5%	М	М	Р
	Sulfuric acid	H ₂ SO ₄ (7664-93-9)	10%	М	Р	Р
			5%	G	М	Р
			1%	Ex	G	М
		CH ₃ COOH (64-19-7)	5%	G*	Р	Р
cid	Acetic acid		2%	Ex*	М	Р
сĄ	(ethanoic acid)		1%	Ex*	Ex	Ex
ani			0.1%	Ex*	Ex	Ex
Organic Acids	Phenol (hydroxybenzene)	C ₆ H ₅ OH 108-95-2)	-	Р	Р	Р
nes	Acetone (CH ₃) ₂ CO (67-64-1)		-	М	-	-
	Amyl alcohol (1-Pentanol)	C ₅ H ₁₁ OH (71-41-0)	-	G	М	М
	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	G	М	М
d Keto	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	G	М	-
des an	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex	Ex	Ex
Alcohols, Aldehydes and Ketones	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex	Ex	Ex
hols, /	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	G	М	М
Alco	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	G	м	-
	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	М	Р	-
	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	G	м	м
Alkalis/Bases	Ammonia	NH ₃ (7664-41-7)	25%	Ex	-	-
	Potassium hydroxide	КОН	40%	Ex	Ex	Ex
	(caustic potash)	(1310-58-3)	20%	Ex	Ex	Ex
alis			50%	Ex	Ex	Ex
Alk	Sodium hydroxide	NaOH	40%	Ex	Ex	Ex
	(caustic soda)	(1310-73-2)	20%	Ex	Ex	Ex
			10%	Ex	Ex	Ex

Excellent	Ex	Suitable for all reasonable applications including immersion.	
Good G Suitable for applications involving immersion for short periods, splashing and contact with fumes.		Suitable for applications involving immersion for short periods, splashing and contact with fumes.	
Moderate M Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either b cleaning or in the case of volatile solvents, by evaporation.		Suitable for use in environments contaminated by the chemical or in situations where accidental splashing can be removed either by cleaning or in the case of volatile solvents, by evaporation.	
Poor	Р	Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.	
*		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	

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mides	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	Ex	Ex
	Diethylene gylcolamine (DGA) (2-(2-aminoethoxy) ethanol) H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OI		-	М	Р	Р
nd A	N-Methyl diethanolamine (MDEA) CH ₃ N(CH ₂ CH ₂ OH) ₂ 105-59-9)		-	Ex	Ex	Ex
Amines and Amides	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	Ex*	м	Р
Ar	Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulfone, 25% water)	N/A	-	Ex*	м	Ρ
	Carbon dioxide (dry)	CO ₂ (124-38-9)	-	Ex	Ex	Ex
Se	Carbon monoxide	CO (630-08-0)	-	Ex	Ex	Ex
Gases	Hydrogen	H ₂ (1333-74-0)	-	Ex	Ex	Ex
	Hydrogen Sulphide	H ₂ S (7783-06-4)	-	Ex	Ex	Ex
	Nitrogen	N ₂ (7727-37-9)	-	Ex	Ex	Ex
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	Ex	Ex
	Crude oil	N/A	-	Ex	Ex	Ex
	Gasoline (petrol)	N/A (8032-32-4)	-	Ex	Ex	Ex
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex	Ex	Ex
su	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	Ex	Ex	-
arbo	Kerosene	N/A (8008-20-6)	-	Ex	Ex	Ex
Hydrocarbons	Mineral Spirits / White Spirits (Turpentine, Stoddards Solvent)	N/A (8052-41-3)		Ex	Ex	Ex
-	Paraffin wax N/A -		-	Ex	Ex	Ex
	Petrolatum N/A (Petroleum jelly) (8009-03-8)		-	Ex	Ex	Ex
	TolueneC6H5CH3(methylbenzene, phenylmethane, toluol)(108-88-3)		-	Ex	G	G
	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex	G	G
Misc	Water	H ₂ 0	-	Ex	Ex	Ex
Ϊ	Brine/Seawater	N/A	-	Ex	Ex	Ex

Excellent	Ex	Suitable for all reasonable applications including immersion.		
Good	G	Suitable for applications involving immersion for short periods, splashing and contact with fumes.		
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Poor	Р	Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.		
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