

				Chemical Resistance			:
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other
	(Synonym)	(CAS number)	Concentration	68 °F	140 °F	194 °F	Other
			20%	M*	Р	Р	-
	Hudrophlorio osid	HCl	10%	G*	M	Р	-
	Hydrochloric acid		5%	Ex*	G	G	-
		(7647-01-0)	3%	Ex*	Ex	G	-
	Nitric acid	HNO ₃	10%	G*	M	9	
ids	NITTIC ACIU	(7697-37-2)	10%	G.	IVI	Р	-
Inorganic Acids	Nitrous acid	HNO ₂	10%	G*	M	P	_
ırgan	Millous acid	(7782-77-6)	10/0	,	IVI	r	
luc	Phosphoric acid	H ₃ PO ₄	10%	G*	М	Р	-
	(orthophosphoric acid)	(7664-38-2)	5%	Ex*	G	M	-
	Sulphuric acid	H₂SO₄	20%	M*	M	Р	-
			10%	G*	G	М	-
			5%	Ex*	Ex	G	-
		(7664-93-9)	3%	Ex*	Ex	Ex	-
			10%	M*	Р	Р	-
	Acetic acid	CH₃COOH	5%	M*	M	М	-
qs	(ethanoic acid)	(64-19-7)	1%	M*	М	М	-
c Aci			0.1%	Ex*	Ex	Ex	-
Organic Acids	Carbonic acid	Carbonic acid H ₂ CO ₃ (463-79-6)		Ex*	Ex	Ex	1
	Phenol (hydroxybenzene)	C ₆ H ₅ OH (108-95-2)	80%	M*	Р	Р	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
LACEHETIC	LA	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
D.O. alamata	D.4	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		
Door	D	significant deterioration / loss of barrier properties after 1 week or less
not suitable for any application		not suitable for any application
*		Draduct must be past aural to deliver austed aboming resistance
		Product must be post cured to deliver quoted chemical resistance
F.,		Bold text highlights real life data obtained via chemical resistance testing
Ex		Both text righting its real tite 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
EX		Normal forth mulcales that the resistance has been predicted based upon partial test data and/or similar reagents





					Chemical Resistance					
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other			
	Acetone (propanone)	(CH ₃) ₂ CO (67-64-1)	-	Ex*	-	-	55°C 131°F G*			
	Amyl alcohol	C ₅ H ₁₁ OH (71-41-0)	-	Ex*	Ex	Ex	-			
	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex*	Ex	Ex	-			
ıes	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex*	Ex	-	-			
Alcohols, Aldehydes and Ketones	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex*	Ex	Ex	-			
dehydes	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex*	Ex	Ex	-			
ohols, Al	n-Hexanol (hexyl alcohol)	C ₆ H ₁₃ OH (111-27-3)	-	Ex*	Ex	Ex	-			
Alc	Higher alcohols	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex*	Ex	Ex	-			
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Ex*	Ex	-	-			
	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex*	Ex	Ex	-			
	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Ex*	Ex	-	-			
	Methanol solution (aqueous)	Ex*	Ex	-	79°C 174°F Ex					
	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone) CH ₃ C(O)CH ₂ CH ₃ (78-93-3)				G	-	-			

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
LACEHETIC	LA	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
D.O. alamata	D.4	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		
Door	D	significant deterioration / loss of barrier properties after 1 week or less
not suitable for any application		not suitable for any application
*		Draduct must be past aural to deliver austed aboming resistance
		Product must be post cured to deliver quoted chemical resistance
F.,		Bold text highlights real life data obtained via chemical resistance testing
Ex		Both text righting its real tite 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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					Chemical I		
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex*	Ex	Ex	-
etones	Propylene glycol (1,2-Propanediol)	CH₃CH(OH)CH₂OH (57-55-6)	-	Ex*	Ex	Ex	-
Alcohols, Aldehydes and Ketones	Secondary alcohols	R₁R₂CHOH	-	Ex*	Ex	Ex	-
s, Aldehy	Tertiary alcohols	R₁R₂R₃COH	-	Ex*	Ex	Ex	-
Alcohol	Triethylene glycol (triglycol)	HOCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OH (112-27-6)	-	Ex*	Ex	Ex	-
	Tetraethylene glycol (tetraglycol)	HOCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OH (112-60-7)	-	Ex*	Ex	Ex	-
	Barium hydroxide	Ba(OH) ₂	-	Ex*	Ex	Ex	-
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	1	Ex*	Ex	Ex	-
Alkalis / Bases	Magnesium hydroxide (milk of magnesia)	Mg(OH) ₂ (1309-42-8)	-	Ex*	Ex	Ex	-
lis / E			40%	Ex*	Ex	Ex	-
Alka	Potassium hydroxide (caustic potash)	кон	20%	Ex*	Ex	Ex	-
		(1310-58-3)	10%	Ex*	Ex	Ex	-
			50%	Ex*	Ex	Ex	-
	Sodium hydroxide	NaOH	40%	Ex*	Ex	Ex	-
	(caustic soda)	114011	20%	Ex*	Ex	Ex	-
		(1310-73-2)	10%	Ex*	Ex	Ex	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent	EX	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
D.O. alamata		no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Door	D	significant deterioration / loss of barrier properties after 1 week or less
Poor	۲.	not suitable for any application
*		Draduct must be past aural to deliver austed abominal resistance
		Product must be post cured to deliver quoted chemical resistance
F.,		Pald tout highlights and life data abtained via above in large tacting
Ex		Bold text highlights real life data obtained via chemical resistance testing
Γv		Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents
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				Chemical Resistance			
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other
	(Synonym)	(CAS number)		68 °F	140 °F	194 °F	
	Diethanolamine (DEA) HN(CH ₂ CH ₂ OH) ₂ - (2,2'-iminodiethanol)				Ex	Ex	-
	Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol)	H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OH (929-06-6)	-	Ex*	G	М	-
Sa	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex*	Ex	Ex	-
Amines & Amides	N-Methylethanolamine (2-methylaminoethanol)	CH ₃ NHCH ₂ CH ₂ OH (109-83-1)	-	Ex*	Ex	Ex	-
Amine	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	Ex*	Ex	Ex	-
	Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulphone, 25% water)	N/A	-	Ex*	Ex	Ex	-
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex*	Ex	Ex	-
	Butyl acetate (butyl ethanoate)	CH ₃ C(O)OCH ₂ CH ₂ CH ₂ CH ₃ (123-86-4)	-	Ex*	Ex	Ex	-
hers	Dibutyl phthalate (DBP) (phthalic acid dibutyl ester)	C ₆ H ₄ (C(O)OCH ₂ CH ₂ CH ₂ CH ₃) ₂ (84-74-2)	-	Ex*	Ex	Ex	-
Esters and Ethers	Diethyl ether (ether, ethoxyethane)	CH ₃ CH ₂ OCH ₂ CH ₃ (60-29-7)	-	Ex*	-	-	-
Esté	Dioctyl phthalate (DOP) (bis(2-ethylhexyl) phthalate, DEHP) C ₆ H ₄ (C(O)OCH ₂ CH(CH ₂ CH ₃)CH ₂ CH ₂ CH ₂ CH ₃) ₂ (117-81-7)		-	Ex*	Ex	Ex	-
	Ethyl acetate CH ₃ C(O)OCH ₂ CH ₃ - (ethyl ethanoate, acetic ester)			Ex*	Ex	-	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent	EX	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
Madayata	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Door	D	significant deterioration / loss of barrier properties after 1 week or less
Poor	Ρ.	not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
		Product must be post cured to deliver quoted chemical resistance
Ex		Bold text highlights real life data obtained via chemical resistance testing
EX		both text nightights real time 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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					Chemical Resistance					
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other			
	(Synonym)	(CAS number)		68 °F	140 °F	194 °F				
	Butane	CH ₃ CH ₂ CH ₂ CH 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 ₂ H ₆ (74-84-0)	-	Ex	Ex	Ex	-			
Gases	Hydrogen	H ₂ (1333-74-0)	-	Ex	Ex	Ex	-			
Ga	Hydrogen sulphide	H ₂ S (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	-			
	Nitrous oxide N_2O (dinitrogen monoxide) N_2O		-	Ex	Ex	Ex	-			
	Ozone (dry)	O ₃ (10028-15-6)	-	Ex	Ex	Ex	-			
	Ozone (wet)	O ₃ (10028-15-6)	-	G*	M	M	-			

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent	EX	suitable for all applications including long term immersion
Good G		no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
Moderate		no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate	suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment	
significant deterioration / loss of barrier properties after 1 week or less		significant deterioration / loss of barrier properties after 1 week or less
not suitable for any application		not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
		Product must be post cured to deliver quoted chemical resistance
F.,		Bold text highlights real life data obtained via chemical resistance testing
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Γv		Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents
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					Chemical Resistance					
	Chemical name	Chemical formula	Concentration	20 °C 68 °F	60 °C	90 °C 194 °F	Other			
	(Synonym)	(CAS number)		68 F	140 °F	194 F				
Gases	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	Ex	Ex	-			
Ga	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	Ex	Ex	-			
S	Chlorobenzene (benzene chloride, phenyl chloride)	C ₆ H ₅ Cl (108-90-7)	-	Ex*	G	М	-			
Halocarbons	Chloroform (trichloromethane)	HCCl ₃ (67-66-3)	-	Ex*	-	-	-			
Ĭ	Dichloromethane (DCM) (methylene chloride)	CH ₂ Cl ₂ (75-09-2)	-	Ex*	-	-	-			
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	-	Ex*	Ex	Ex	-				
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Ex*	Ex	-	-			
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Ex*	Ex	-	-			
Hydrocarbons	Gasoline (without Ethanol) (petrol)	N/A (8032-32-4)	-	Ex*	Ex	Ex	-			
Hydroc	Heptane	-	Ex*	Ex	Ex	-				
	Hexane CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ - (110-54-3)				Ex	-	-			
	lso-octane (2,2,4-trimethylpentane)	-	Ex*	Ex	Ex	-				
	Kerosene	N/A (8008-20-6)	-	Ex*	Ex	Ex	-			

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent	EX	suitable for all applications including long term immersion
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
Madayata	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate M suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment
Door	D	significant deterioration / loss of barrier properties after 1 week or less
Poor	Ρ.	not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
		Product must be post cured to deliver quoted chemical resistance
Ex		Bold text highlights real life data obtained via chemical resistance testing
EX		both text righting its real time 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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				Chemical Resistance				
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other	
	Mesitylene (1,3,5-Trimethylbenzene)	C ₆ H 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	-	
Hydrocarbons	Naphthalene (naphthalin, white tar)	C ₁₀ H ₈ (91-20-3)	-	Ex*	Ex	Ex	-	
	Paraffin				Ex	Ex	-	
	Pentane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0)	-	Ex*	-	-	-	
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex*	Ex	Ех	-	
	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	Ex	-	
	Water	H ₂ O (7732-18-5)	-	Ex*	Ex	Ex	95°C 203°F Ex	
sno	Nalco DVE4D002 Corrosion Inhibitor		-	Ex*	G	-	-	
Miscellaneous	Nalco DVE4D006 Corrosion Inhibitor		-	Ex*	G	-	-	
	Nalco EC1317A Corrosion inhibitor N/A		-	Ex*	Ex	-	-	
	Nalco EC6303A Oxygen Scavenger N/A		-	Ex*	Ex	1	-	

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks			
LACEHETIC	LA	suitable for all applications including long term immersion			
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks			
Good	G	suitable for short-term immersion and general chemical contact			
Moderate	М	no significant deterioration / barrier properties retained for 1 - 12 weeks			
woderate		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment			
Danie	D	significant deterioration / loss of barrier properties after 1 week or less			
Poor	"	not suitable for any application			
*		Draduct must be past guard to deliver quoted abominal resistance			
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				(Chemical Resistance			
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other	
	Nalco EC6481A Hydrate Inhibitor	N/A	-	Ex*	Ex	-	-	
	Nalco EC6622A Low Dosage Hydrate Inhibitor (LDHI)	N/A	-	Ex*	Ex	-	-	
Miscellaneous	Nalco EC9356A Hydrogen Sulphide Scavenger	N/A	-	Ex*	Ex	-	-	
	Nalco O3VD123 Corrosion Inhibitor		-	Ex*	G	ı	-	
	Nalco Ultimer 7751 Flocculant Water Treatment N/A		-	Ex*	Ex	-	-	
	Sour oil / Brine mix N/A		-	Ex*	Ex	Ex	110°C 230°F Ex	

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks			
Executive		suitable for all applications including long term immersion			
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks			
Good	G	suitable for short-term immersion and general chemical contact			
	М	no significant deterioration / barrier properties retained for 1 - 12 weeks			
Moderate		suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment			
	Р	significant deterioration / loss of barrier properties after 1 week or less			
Poor		not suitable for any application			
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Ex		Bold text highlights real life data obtained via chemical resistance testing			
EX		boid text nigningrits real me data obtained via chemical resistance testing			
Γv		Newsol fast indicates that the varieties has been predicted based upon partial test data and far similar varieties			
Ex		Normal font indicates that the resistance has been predicted based upon partial test data and/or similar reagents			

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however, subject to change without prior notice and the user should contact Belzona to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Belzona, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose. Nothing in the foregoing statement shall exclude or limit any liability of Belzona to the extent such liability cannot by law be excluded or limited.