



					Chemical Resistance					
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other			
			10%	M*	Р	Р	-			
	Hydrochloric acid	HCI	5%	G*	M	М	-			
		(7647-01-0)	3%	G*	G	М	-			
ids	Nitric acid	HNO ₃ (7697-37-2)	10%	M*	М	Р	-			
Inorganic Acids	Nitrous acid	HNO ₂ (7782-77-6)	10%	M*	М	Р	1			
lnc	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	10%	M*	M	Р	-			
			10%	M*	P	P	-			
	Sulphuric acid	H ₂ SO ₄	5%	M*	Р	Р	-			
		(7664-93-9)	3%	M*	M	M	-			
spi	Acetic acid	CH₃COOH	10%	M*	P	Р	-			
ic Ac	(ethanoic acid)	(64-19-7)	5%	M*	P	Р	-			
Organic Acids	Phenol (hydroxybenzene)	C ₆ H ₅ OH (108-95-2)	80%	Р	Р	Р	-			
	Acetone (propanone)	(CH ₃) ₂ CO (67-64-1)	-	Ex*	-	ı	-			
etones	Amyl alcohol	C ₅ H ₁₁ OH (71-41-0)	-	Ex*	Ex	Ex	ı			
des and k	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex*	Ex	Ex	ı			
Alcohols, Aldehydes and Ketones	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex*	Ex	-	-			
Alcohol	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂	-	Ex	Ex	Ex	-			
	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex*	Ex	Ex	-			

		no significant deterioration / howier proporties retained for greater than F3 weeks		
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		
dood	,	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				
Boom	P	significant deterioration / loss of barrier properties after 1 week or less		
Poor	P	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		





						Resistance)
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	n-Hexanol (hexyl alcohol)	C ₆ H ₁₃ OH (111-27-3)	-	Ex*	Ex	Ex	-
	Higher alcohols	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex*	Ex	Ex	ı
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃ (67-63-0)	-	Ex*	Ex	-	1
	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex*	Ex	Ex	-
SS	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Ex*	Ex	-	-
Alcohols, Aldehydes and Ketones	Methanol solution (aqueous)	CH ₃ OH _(aq) (67-56-1)	55%	Ex*	Ex	-	79°C 174°F Ex
Idehydes	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Ex*	Ex	-	ı
cohols, A	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex*	Ex	Ex	ı
IA I	Propylene glycol (1,2-Propanediol)	CH₃CH(OH)CH₂OH (57-55-6)	-	Ex*	Ex	Ex	1
	Secondary alcohols	R₁R₂CHOH	-	Ex*	Ex	Ex	ı
	Tertiary alcohols	R₁R₂R₃COH	-	Ex*	Ex	Ex	ı
	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	-

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 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		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			
Door	P	significant deterioration / loss of barrier properties after 1 week or less			
Poor	Р	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				
	Chemical name	Chemical formula	Concentration	20 °C	60 °C	90 °C	Other		
	(Synonym)	(CAS number)		68 °F	140 °F	194 °F			
	Barium hydroxide	Ex*	Ex	Ex	-				
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex*	Ex	Ex	-		
Alkalis / Bases	Magnesium hydroxide (milk of magnesia)	Mg(OH) ₂ (1309-42-8)	-	Ex*	Ex	Ex	-		
/ s			40%	G*	G	G	-		
VIkali	Potassium hydroxide (caustic potash)	КОН	20%	Ex*	G	G	-		
`	(caustic potasti)	(1310-58-3)	10%	Ex*	G	G	-		
	Sodium hydroxide (caustic soda)		50%	Ex*	G	G	-		
		N. O.I.	40%	Ex*	G	G	-		
		NaOH	20%	Ex*	G	G	-		
		(1310-73-2)	10%	Ex*	G	G	-		
	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex*	G	М	-		
	Diethylene gylcolamine (DGA)	H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OH		G*		9			
	(2-(2-aminoethoxy) ethanol)	(929-06-6)	-	G*	M	Р	-		
mides	N-Methyl diethanolamine (MDEA)	CH ₃ N(CH ₂ CH ₂ OH) ₂ (105-59-9)	-	Ex*	Ex	Ex	-		
Amines & 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 sulphone, 25% water)	N/A	-	Ex*	G	M	-		
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex*	G	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	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate Moderate 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	Р	significant deterioration / loss of barrier properties after 1 week or less
Poor		not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
		Troduct must be post cared 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
		Pari Barrat 2016 2016





				Chemical Resistance					
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other		
	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	C₂H 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 (dinitrogen monoxide)	N ₂ O (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	-		

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 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		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		
Door	Р	significant deterioration / loss of barrier properties after 1 week or less		
Poor	P	not suitable for any application		
*		Product must be post cured to deliver quoted chemical resistance		
		Troduct mast ac post cared to deliver quoted chemical residente		
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					Chemical I	Resistance	!
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
ses	Sulphur dioxide SO ₂ - (7446-09-5)				Ex	Ex	-
Gases	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	Ex	Ex	-
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex*	Ex	Ex	1
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Ex*	Ex	-	-
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Ex*	Ex	-	-
	Gasoline (without Ethanol) (petrol)	N/A (8032-32-4)	-	Ex*	Ex	Ex	-
suc	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex*	Ex	Ex	-
Hydrocarbons	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	Ex*	Ex	-	-
Ŧ	Iso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Ex*	Ex	Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex*	Ex	Ex	-
	Mesitylene (1,3,5-Trimethylbenzene)	-	Ex*	Ex	Ex	-	
	Mineral spirits / White spirits (Stoddard solvent)	-	Ex*	Ex	Ex	-	
	Naphtha	N/A (8030-30-6)	-	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
Moderate	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate Moderate 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	Р	significant deterioration / loss of barrier properties after 1 week or less
Poor		not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
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Ex		Bold text highlights real life data obtained via chemical resistance testing
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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		
	Naphthalene C ₁₀ H ₈ - (naphthalin, white tar)					Ex	ı		
SI	Paraffin	N/A (8002-74-2)	-	Ex*	Ex	Ex	-		
Hydrocarbons	Pentane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0)	-	Ex*	-	-	-		
Ŧ	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex*	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	Ex	-		
	Deionised water	Ex*	Ex	Ex	-				
	Nalco DVE4D002 Corrosion Inhibitor	N/A	-	G*	М	-	-		
	Nalco DVE4D006 Corrosion Inhibitor	N/A	-	G*	М	1	1		
Miscellaneous	Nalco EC6303A Oxygen Scavenger	N/A	-	G*	G	1	1		
Miscell	Nalco EC6481A Hydrate Inhibitor	N/A	-	G*	G	ı	ı		
	Nalco EC6622A Low Dosage Hydrate Inhibitor (LDHI)	-	G*	G	ı	ı			
	Nalco EC9356A Hydrogen Sulphide Scavenger	-	G*	G	-	-			
	Nalco O3VD123 Corrosion Inhibitor	-	G*	G	-	-			

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	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate Moderate 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	Р	significant deterioration / loss of barrier properties after 1 week or less
Poor		not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
		Troduct must be post cared to deliver quoted chemical resistance
Ex		Bold text highlights real life data obtained via chemical resistance testing
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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
Miscellaneous	Nalco Ultimer 7751 Flocculant Water Treatment	N/A	-	G*	G	ı	ı
Miscell	Sour oil / Brine mix	N/A	-	Ex*	Ex	Ex	-

Excellent	Ex	no significant deterioration / barrier properties retained for greater than 52 weeks		
LACEHEIIC		suitable for all applications including long term immersion		
Good	G	no significant deterioration / barrier properties retained for 12 - 52 weeks		
Good		suitable for short-term immersion and general chemical contact		
Moderate	М	no significant deterioration / barrier properties retained for 1 - 12 weeks		
Moderate	IVI	suitable for applications involving short term chemical contact e.g. spillage, splashing or secondary containment		
Door	Р	significant deterioration / loss of barrier properties after 1 week or less		
Poor		not suitable for any application		
*		Product must be post cured to deliver quoted chemical resistance		
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