

FN10032

					Chemical	Resistance	9
	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	(0),		10%	M*	Р	Р	-
	Hydrochloric acid	HCI	5%	M*	М	Р	-
		(7647-01-0)	3%	M*	м	Р	-
ids	Nitric acid	HNO ₃ (7697-37-2)	10%	M*	м	М	-
Inorganic Acids	Nitrous acid	HNO ₂ (7782-77-6)	10%	M*	м	м	-
oul	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	10%	M*	м	Ρ	-
			10%	M*	Р	Р	-
	Sulphuric acid	H_2SO_4	5%	M*	Р	Р	-
		(7664-93-9)	3%	M*	М	м	-
	Acetic acid	CH₃COOH	10%	M*	Р	Р	-
ds	(ethanoic acid)	(64-19-7)	5%	M*	м	Р	-
Organic Acids	Carbonic acid	H ₂ CO ₃ (463-79-6)	-	Ex	Ex	Ex	
ō	Formic acid (methanoic acid)	HCOOH (64-18-6)	5%	Р*	Р	Ρ	-
les	Acetone (propanone)	(CH ₃) ₂ CO (67-64-1)	-	Ex*	-	-	-
and Keton	Amyl alcohol	C ₅ H ₁₁ OH (71-41-0)	-	Ex	Ex	Ex	-
Alcohols, Aldehydes and Ketones	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex*	Ex	Ex	-
ohols, Ald	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	Ex*	Ex	-	-
Alc	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex	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		5		
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		5		
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		
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	(Synonym)	(CAS number)		68 °F	140 °F	194 °F	
	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex	Ex	Ex	-
	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	-
	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	-
nes	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
dehydes	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Ex*	Ex	-	-
cohols, Al	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex*	Ex	Ex	-
Alc	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex	Ex	Ex	-
	Secondary alcohols	R₁R₂CHOH	-	Ex	Ex	Ex	-
	Tertiary alcohols	R ₁ R ₂ R ₃ COH	-	Ex	Ex	Ex	-
	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	-

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Poor P significant deterioration / loss of barrier properties after 1 week or less not suitable for any application		significant deterioration / loss of barrier properties after 1 week or less not suitable for any application		
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	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other				
	Barium hydroxide	Ba(OH) ₂ (17194-00-2)	-	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	-				
is / B			40%	Ex	Ex	Ex	-				
Alkal	Potassium hydroxide (caustic potash)	КОН	20%	Ex	Ex	Ex	-				
	(,	(1310-58-3)	10%	Ex	Ex	Ex	-				
	Sodium hydroxide (caustic soda)		50%	Ex	Ex	Ex	-				
		NaOH	40%	Ex	Ex	Ex	-				
		NaOn	20%	Ex	Ex	Ex	-				
		(1310-73-2)	10%	Ex	Ex	Ex	-				
	Diethanolamine (DEA) (2,2'-iminodiethanol)	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	G	М	-				
es	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	G	м	-				
Amine	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	G	М	-				

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		suitable for all applications including long term immersion			
Coord	G	no significant deterioration / barrier properties retained for 12 - 52 weeks			
Good	G	suitable for short-term immersion and general chemical contact			
Madavata	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			
Deer	P	significant deterioration / loss of barrier properties after 1 week or less			
Poor	P	not suitable for any application			
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	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	N2 (7727-37-9)	-	Ex	Ex	Ex	-	
	Nitrous oxide (dinitrogen monoxide)	N2O (10024-97-2)	-	Ex	Ex	Ex	-	
	Ozone (dry)	O ₃ (10028-15-6)	-	Ex	Ex	Ex	-	
	Ozone (wet)	O ₃ (10028-15-6)	-	G*	М	м	-	

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Gases	Sulphur dioxide	SQ ₂			Ex	Ex	-
Gas	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	Ex	Ex	-
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	Ex	Ex	-
	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	-
su	Heptane	CH ₃ CH ₂ 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	-	-
Ĥ	lso-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)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	Ex	Ex	Ex	-
	Mineral spirits / White spirits N/A (Stoddard solvent) (8052-41-3)		-	Ex	Ex	Ex	-
	Naphtha	N/A (8030-30-6)	-	Ex	Ex	Ex	-

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	Naphthalene (naphthalin, white tar)	C ₁₀ H ₈ (91-20-3)	-	Ex	Ex	Ex	-
su	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	-	-	-
Нy	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	-
ns	Deionised water	H ₂ O (7732-18-5)	-	Ex	Ex	Ex	-
Miscellaneous	Sodium hypochlorite (bleach)	NaOCI (7681-52-9)	12% Cl ₂	M*	Ρ	Ρ	-
	Sour oil / Brine mix	N/A	-	Ex	Ex	Ex	-

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