



					Chemical Resistance			
	Chemical name (Synonym)	Chemical formula	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other	
		, ,	10%	G*	M	M	-	
	Hydrochloric acid	HCI	5%	G*	M	М	-	
qs		(7647-01-0)	1%	Ex*	G	М	-	
Inorganic Acids	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	5%	M*	M	Р	-	
luo			10%	M*	Р	Р	-	
	Sulphuric acid	H ₂ SO ₄	5%	M*	M	Р	-	
		(7664-93-9)	1%	Ex*	M	М	-	
			5%	P*	Р	P	-	
cids		Acetic acid CH ₃ COOH (ethanoic acid) (64-19-7)	1%	G*	G	G	-	
Organic Acids	(0.1%	Ex*	Ex	Ex	-	
Orga	Phenol (hydroxybenzene)	C ₆ H ₅ OH (108-95-2)	80%	P*	Р	Р	-	
	Acetone (propanone)	(CH ₃) ₂ CO (67-64-1)	-	M*	-	-	-	
Si	Amyl alcohol	C ₅ H ₁₁ OH (71-41-0)	-	Ex*	G	G	-	
nd Ketone	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex*	G	G	-	
Alcohols, Aldehydes and Ketones	Ethanol (ethyl alcohol)	CH₃CH₂OH (64-17-5)	-	Ex*	D	ı	78°C 172°F M	
cohols, A	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂	-	Ex*	Ex	Ex	-	
IA	Glycerol HOCH ₂ CH(OH)CH ₂ OH - (glycerine, propane-1,2,3-triol)				G	G	-	
	n-Hexanol (hexyl alcohol)	C ₆ H ₁₃ OH (111-27-3)	-	Ex*	G	G	ī	

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.Co. double	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		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
		Troduct most ac post carea 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 (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	Higher alcohols	$C_nH_{(2n+1)}OH$ where $n > 2$	-	Ex*	G	G	-
	Isopropyl alcohol (IPA) (isopropanol, propan-2-ol)	CH ₃ CH(OH)CH ₃	-	Ex*	G	-	-
	Isobutyl alcohol (IBA) (isobutanol, 2-methylpropan-1-ol)	(CH ₃) ₂ CHCH ₂ OH (78-83-1)	-	Ex*	G	G	-
	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	Ex*	M	1	65°C 149°F M
nes	Methyl ethyl ketone (MEK) (2-butanone, methyl acetone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	Ex*	M	-	-
Alcohols, Aldehydes and Ketones	Methyl isobutyl ketone (MIBK) (hexone, 4-Methylpentan-2-one)	(CH ₃) ₂ CHCH ₂ C(O)CH ₃ (108-10-1)	-	Ex*	Ex*	M	-
Idehydes	Methyl pentyl ketone (methyl n-amyl ketone, heptan-2-one)	CH ₃ COCH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-43-0)	-	Ex*	Ex	G	-
Icohols, A	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex*	G	G	-
A	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex*	Ex	Ex	-
	Secondary alcohols	R₁R₂CHOH	-	Ex*	G	G	-
	Tertiary alcohols	R₁R₂R₃COH	-	Ex*	G	G	-
	Triethylene glycol (triglycol)	-	Ex*	G	M	-	
	Tetraethylene glycol (tetraglycol)	HOCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OH (112-60-7)	-	Ex*	G	М	-

Evenllout	Eve	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent Ex Suitable for all applications including long term immersion		suitable for all applications including long term immersion
Cood	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
Madausta	D.4	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate	derate M 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
Poor	P	not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
		Froduct must be post cured to deliver quoted chemical resistance
Ex		Bold text highlights real life data obtained via chemical resistance testing
LA		Both teating mights real me 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
LX		Normal forte indicates 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		
	Ammonia solution (ammonium hydroxide)	NH _{3 (aq)} (1336-21-6)	25%	Ex*	-	-	-		
Alkalis / Bases	Potassium hydroxide (caustic potash)	KOH 1310-58-3)	10%	Ex*	G	М	-		
Alkali			50%	Ex*	G	G	-		
	Sodium hydroxide (caustic soda)	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*	Ex	Ex	-		
	Diethylene glycolamine (DGA) (2-(2-aminoethoxy) ethanol)	H ₂ NCH ₂ CH ₂ OCH ₂ CH ₂ OH (929-06-6)	-	M*	Р	Р	-		
Amines & Amides	N-Methyl diethanolamine (MDEA) CH ₃ N(CH ₂ CH ₂ OH) ₂ - (105-59-9)				Ex	Ех	-		
Amines 8	Monoethanolamine (MEA) (2-aminoethanol)	H ₂ NCH ₂ CH ₂ OH (141-43-5)	-	M*	P	Р	-		
	Sulfinol solution (50% diisopropanolamine, 25% tetramethylene sulphone, 25% water)	N/A	-	Ex*	G	M	ı		
	Triethanolamine (TEA) (2,2',2"-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex*	Ex	G	-		
	Butane	CH ₃ CH ₂ CH ₂ CH ₃ (106-97-8)	-	Ex	Ex	Ex	-		
Gases	Carbon dioxide CO ₂		-	Ex	Ex	Ex	-		
Ga	Carbon monoxide	CO (630-08-0)	-	Ex	Ex	Ex	-		
	Chlorine (dry)	Cl ₂ (7782-50-5)	-	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	d	suitable for short-term immersion and general chemical contact
Madayata	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate	Moderate M 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
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 (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other	
	Ethane	C ₂ H ₆ (74-84-0)	-	Ex	Ex	Ex	-	
	Hydrogen	H ₂ (1333-74-0)	-	Ex	Ex	Ex	-	
	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Ex	Ex	Ex	-	
	Methane (natural gas)	CH ₄ (74-82-8)	-	Ex	Ex	Ex	ı	
Gases	Nitrogen	N ₂ (7727-37-9)	1	Ex	Ex	Ex	ı	
Ga	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	М	-	
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	Ex	Ex	-	
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	Ex	Ex	-	
	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex*	Ex	Ex	-	
Hydrocarbons	Crude Oil N/A		-	Ex*	Ex	Ex		
Hydroc	Cyclohexane	-	Ex*	Ex	-	-		
	Diesel	N/A	-	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	d	suitable for short-term immersion and general chemical contact
Madayata	М	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate	Moderate M 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
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 (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60 °C 140 °F	90 °C 194 °F	Other
	Ethyl benzene (ethyl benzol, EB)	C ₆ H ₅ CH ₂ CH ₃ (100-41-4)	-	Ex*	Ex	G	-
	Gasoline (without Ethanol) (petrol)	N/A (8032-32-4)	-	Ex*	Ex	Ex	-
	Heptane	CH3CH2CH2CH2CH2CH3CH3CH2CH3CH3CH2CH3CH3CH2CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3CH3C	-	Ex*	Ex	Ex	-
	Hexane	CH3CH2CH2CH2CH2CH3 (110-54-3)	-	Ex*	Ex	-	-
arbons	lso-octane (2,2,4-trimethylpentane)	(CH3)3CCH2CH(CH3)2	-	Ex*	Ex	Ex	-
Hydrocarbons	Kerosene	N/A (8008-20-6)	-	Ex*	Ex	Ex	-
	Mesitylene (1,3,5-Trimethylbenzene)	C6H3(CH3)3	-	Ex*	Ex	Ex	-
	Mineral spirits / White spirits (Stoddard solvent)	N/A (8052-41-3)	-	Ex*	Ex	Ex	ı
	Naphtha	N/A (8030-30-6)	-	Ex*	Ex	Ex	-
	Naphthalene (naphthalin, white tar)	-	Ex*	Ex	Ex	-	

Evenllout	Eve	no significant deterioration / barrier properties retained for greater than 52 weeks
Excellent Ex Suitable for all applications including long term immersion		suitable for all applications including long term immersion
Cood	G	no significant deterioration / barrier properties retained for 12 - 52 weeks
Good	G	suitable for short-term immersion and general chemical contact
Madausta	D.4	no significant deterioration / barrier properties retained for 1 - 12 weeks
Moderate	derate M 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
Poor	P	not suitable for any application
*		Product must be post cured to deliver quoted chemical resistance
		Froduct must be post cured to deliver quoted chemical resistance
Ex		Bold text highlights real life data obtained via chemical resistance testing
LA		Both teating mights real me 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
LX		Normal forte 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 68 °F	60 °C 140 °F	90 °C	Other	
	(Synonym)	(CAS number)		06 F	140 F	194 °F		
	Paraffin	N/A	-	Ex*	Ex	Ex	-	
		(8002-74-2)						
rbons	Pentane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0)	-	Ex*	-	-	-	
Hydrocarbons	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex*	Ex	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*	Ex	G	-	

excellent 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	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	

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.