

# CHEMICAL RESISTANCE OF BELZONA® 1221 (Super E-Metal)

FN 10020



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
Inorganic Acids	Carbonic acid	H <sub>2</sub> CO <sub>3</sub> (463-79-6)	-	Ex	-
	Fluorosilicic acid	H <sub>2</sub> SiF <sub>6</sub> (16961-83-4)	-	M	-
	Hydrobromic acid	HBr (10035-10-6)	10%	G	-
	Hydrochloric acid	HCl (7647-01-0)	35%	M	-
			20%	G	-
			10%	Ex	-
	Nitric acid	HNO <sub>3</sub> (7697-37-2)	50%	M	-
			20%	G	-
			10%	G	-
Nitrous acid	HNO <sub>2</sub> (7782-77-6)	20%	G	-	
Oleum		-	P	-	
Phosphoric acid (orthophosphoric acid)	H <sub>3</sub> PO <sub>4</sub> (7664-38-2)	20%	G	-	
		10%	Ex	-	
		5%	Ex	-	
Sulfuric acid	H <sub>2</sub> SO <sub>4</sub> (7664-93-9)	98%	P	-	
		50%	G	-	
		20%	Ex	-	
		10%	Ex	-	
Organic Acids	Acetic acid (ethanoic acid)	CH <sub>3</sub> COOH (64-19-7)	50%	P	-
			20%	G	-
			10%	Ex	-
	Chloroacetic acid	ClCH <sub>2</sub> COOH (79-11-8)	-	P	-
	Chlorosulfonic acid (sulfurochloridic acid)	HSO <sub>3</sub> Cl (7790-94-5)	-	P	-
	Citric acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> (77-92-9)	-	G	-
	Cresylic acid (cresol)	C <sub>7</sub> H <sub>8</sub> O (1319-77-3)	-	P	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	M	-
10%			G	-	
Lactic acid	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub> (64-19-7)	10%	Ex	-	
Phenol	C <sub>6</sub> H <sub>5</sub> OH (108-95-2)	80%	P	-	
Alcohols	n-Butanol (butyl alcohol)	C <sub>4</sub> H <sub>9</sub> OH (71-36-3)	-	G	-
	Ethanol (ethyl alcohol)	CH <sub>3</sub> CH <sub>2</sub> OH (64-17-5)	-	P	-
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH <sub>2</sub> OH) <sub>2</sub> (107-21-1)	-	G	-
	Glycerol (glycerine, propane-1,2,3-triol)	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH (56-81-5)	-	G	-
	Higher alcohols	C <sub>n</sub> H <sub>(2n+1)</sub> OH where n > 2	-	G	-
	Methanol (methyl alcohol)	CH <sub>3</sub> OH (67-56-1)	-	P	-
	2-Methoxyethanol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> (109-86-4)	-	Ex	-

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Alcohols continued	Propan-1-ol (Propyl alcohol)	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH (71-23-8)	-	G	-
	Propylene glycol (1,2-Propanediol)	CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH (57-55-6)	-	G	-
	Secondary alcohols	R <sub>1</sub> R <sub>2</sub> CHOH	-	G	-
	Tertiary alcohols	R <sub>1</sub> R <sub>2</sub> R <sub>3</sub> COH	-	G	-
Alkalis	Ammonia	NH <sub>3</sub> (7664-41-7)	30% 20% 10%	G G G	- - -
	Barium hydroxide	Ba(OH) <sub>2</sub> (17194-00-2)	-	Ex	-
	Calcium hydroxide (lime water)	Ca(OH) <sub>2</sub> (1305-62-0)	-	Ex	-
	Magnesium hydroxide (milk of magnesia)	Mg(OH) <sub>2</sub> (1309-42-8)	-	Ex	-
	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	40% 20% 10%	Ex Ex Ex	- - -
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	40% 20% 10%	Ex Ex Ex	- - -
Amines & Amides	Aniline (Phenylamine)	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub> (62-53-3)	-	P	-
	Diethanolamine	HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> (111-42-2)	-	Ex	-
	Diethylamine	CH <sub>3</sub> CH <sub>2</sub> NHCH <sub>2</sub> CH <sub>3</sub> (109-89-7)	-	P	-
	Dimethylformamide	(CH <sub>3</sub> ) <sub>2</sub> NC(O)H (68-12-2)	-	P	-
	Methylamine (25% in water)	CH <sub>3</sub> NH <sub>2</sub> (74-89-5)	-	Ex	-
	Pyridine	C <sub>5</sub> H <sub>5</sub> N (110-86-1)	-	P	-
	Triethanolamine (TEA) (2,2',2''-nitrioltriethanol)	N(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>3</sub> (102-71-6)	-	Ex	-
Beverages & Foodstuffs	Beer		-	G	-
	Cider		-	G	-
	Citrus juices		-	G	-
	Fermentation liquor		-	M	-
	Glucose		-	Ex	-
	Milk		-	G	-
	Sugar solution		-	Ex	-
	Vinegar		-	G	-
	Whisky and Wine		-	M	-

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Esters & Ethers	Amyl acetate	CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub> (628-63-7)	-	Ex	-
	Butyl acetate	C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> (123-86-4)	-	Ex	-
	Dibutyl adipate	[CH <sub>2</sub> CH <sub>2</sub> CO <sub>2</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> ] <sub>2</sub> (105-99-7)	-	Ex	-
	Dibutyl phthalate	C <sub>16</sub> H <sub>22</sub> O <sub>4</sub> (84-74-2)	-	Ex	-
	Dibutyl sebacate	C <sub>18</sub> H <sub>34</sub> O <sub>4</sub> (109-43-3)	-	Ex	-
	Diocetyl adipate	C <sub>22</sub> H <sub>42</sub> O <sub>4</sub> (123-79-5)	-	Ex	-
	Diocetyl phthalate	C <sub>6</sub> H <sub>4</sub> (C <sub>8</sub> H <sub>17</sub> COO) <sub>2</sub> (117-81-7)	-	Ex	-
	Diocetyl sebacate	(CH <sub>2</sub> ) <sub>8</sub> (COOC <sub>8</sub> H <sub>17</sub> ) <sub>2</sub>	-	Ex	-
	Diethyl ether	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O (60-29-7)	-	G	-
	Diphenyl isodecyl phosphate	C <sub>22</sub> H <sub>31</sub> O <sub>4</sub> P (29761-21-5)	-	Ex	-
	Ethyl acetate	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>3</sub> (141-78-6)	-	G	-
	Isopropyl ether	C <sub>6</sub> H <sub>14</sub> O (108-20-3)	-	G	-
	Methyl acetate	CH <sub>3</sub> COOCH <sub>3</sub> (79-20-9)	-	G	-
Gases	Carbon dioxide (dry)	CO <sub>2</sub> (124-38-9)	-	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	-
	Chlorine (dry)	Cl <sub>2</sub> (7782-50-5)	-	-	-
	Hydrogen	H <sub>2</sub> (1333-74-0)	-	Ex	-
	Natural Gas (Methane)	CH <sub>4</sub>	-	Ex	-
	Nitrogen	N <sub>2</sub> (7727-37-9)	-	Ex	-
	Nitrous oxide (dinitrogen monoxide)	N <sub>2</sub> O (10024-97-2)	-	Ex	-
	Ozone (dry)	O <sub>3</sub> (10028-15-6)	-	Ex	-
	Ozone (aqueous solution)		-	M	-
	Sulphur dioxide	SO <sub>2</sub> (7446-09-5)	-	Ex	-
	Sulphur trioxide (sulphuric anhydride)	SO <sub>3</sub> (7446-11-9)	-	Ex	-

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Halocarbons	Carbon tetrachloride	CCl <sub>4</sub> (56-23-5)	-	M	-	
	Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl (108-90-7)	-	P	-	
	Chloroform	CHCl <sub>3</sub> (67-66-3)	-	M	-	
	Dry cleaning fluids		-	M	-	
	Methylene chloride (dichloromethane)	CH <sub>2</sub> Cl <sub>2</sub> (75-09-2)	-	P	-	
	Perchloroethylene (tetrachloroethylene)	Cl <sub>2</sub> C=CCl <sub>2</sub> (127-18-4)	-	M	-	
	1,1,1, - Trichloroethane (methyl chloroform)	CH <sub>3</sub> CCl <sub>3</sub> (71-55-6)	-	M	-	
Hydrocarbons	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	-	
	Benzene (benzol)	C <sub>6</sub> H <sub>6</sub> (71-43-2)	-	G	-	
	Cyclohexane	C <sub>6</sub> H <sub>12</sub> (110-82-7)	-	M	-	
	Gasoline – Ethanol free (Petrol)		-	Ex	-	
	Heptane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (142-82-7)	-	Ex	-	
	Hexane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (110-54-3)	-	Ex	-	
	Iso-octane (2,2,4-trimethylpentane)	(CH <sub>3</sub> ) <sub>3</sub> CCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub> (540-84-1)	-	Ex	-	
	Kerosene	N/A (8008-20-6)	-	Ex	-	
	Paraffin	N/A (8002-74-2)	-	Ex	-	
	Pentane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> (109-66-0)	-	Ex	-	
	Styrene	C <sub>6</sub> H <sub>5</sub> CH=CH <sub>2</sub> (100-42-5)	-	G	-	
	Toluene (methylbenzene, phenylmethane, toluol)	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> (108-88-3)	-	P	-	
	White Spirit (Stoddard solvent, Mineral spirits)		(8052-41-3)	-	Ex	-
	Xylene (dimethyl benzene, xylol)	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub> (95-47-6/108-38-3/106-42-3/1330-20-7)	-	G	-	
	Ketones	Acetone	(CH <sub>3</sub> ) <sub>2</sub> CO (67-64-1)	-	P	-
Methyl ethyl ketone (MEK, butanone)		CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub> (78-93-3)	-	P	-	
Miscellaneous	Brake fluid		-	G	-	
	Drilling mud		-	Ex	-	
	Emulsion paint		-	Ex	-	
	Fertilizer solutions		-	Ex	-	
	Grease		-	Ex	-	

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Miscellaneous continued	Ink (water based)		-	Ex	-
	Mercury	Hg	-	Ex	-
	Mine waters (acid)		-	Ex	-
	Oil/water mixtures		-	Ex	-
	Water, distilled		-	Ex	-
	Water, fresh		-	Ex	-
Oils - Mineral	Water, sea		-	Ex	-
	Bunker oils (fuel oils)		-	G	-
	Crude oil		-	G	-
	Cutting oils, water emulsions		-	-	-
	Diesel oil		-	Ex	-
	Lubricating oil		-	Ex	-
Oils - Vegetable/ Animal	Transformer oil		-	Ex	-
	Castor oil		-	Ex	-
	Coconut oil		-	Ex	-
	Cod liver oil		-	Ex	-
	Corn oil		-	Ex	-
	Linseed oil		-	Ex	-
Salts	Olive oil		-	Ex	-
	Aluminium chloride (dry)	AlCl <sub>3</sub> (7446-70-0)	-	Ex	-
	Aluminium sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10043-01-3)	-	Ex	-
	Alums		-	Ex	-
	Ammonium bicarbonate	(NH <sub>4</sub> )HCO <sub>3</sub> (1066-33-7)	-	Ex	-
	Ammonium carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> (506-87-6)	-	Ex	-
	Ammonium chloride	NH <sub>4</sub> Cl (12125-02-9)	-	Ex	-
	Ammonium monophosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> (7722-76-1)	-	Ex	-
	Ammonium phosphate (dibasic)	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub> (7783-28-0)	-	Ex	-
	Ammonium phosphate (tribasic)	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub> (10361-65-6)	-	Ex	-
	Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub> (6484-52-2)	-	Ex	-
	Ammonium sulfate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> (7783-20-2)	-	Ex	-
	Antimony trichloride	SbCl <sub>3</sub> (10025-91-9)	-	Ex	-
	Barium carbonate	BaCO <sub>3</sub> (513-77-9)	-	Ex	-
	Barium chloride	BaCl <sub>2</sub> (10361-37-2)	-	Ex	-
	Barium sulfate	BaSO <sub>4</sub> (7727-43-7)	-	Ex	-
	Brines		-	Ex	-
Calcium bisulfite	Ca(HSO <sub>3</sub> ) <sub>2</sub> (13780-03-5)	-	Ex	-	
Calcium carbonate	CaCO <sub>3</sub> (471-34-1)	-	Ex	-	

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Salts continued	Calcium chloride	CaCl <sub>2</sub> (10043-52-4)	-	Ex	-
	Calcium hypochlorite	Ca(ClO) <sub>2</sub> (7778-54-3)	-	M	-
	Calcium sulphate	CaSO <sub>4</sub> (7778-18-9)	-	Ex	-
	Chrome alum	KCr(SO <sub>4</sub> ) <sub>2</sub> (10141-00-1)	-	Ex	-
	Copper acetate	Cu(CH <sub>3</sub> COO) <sub>2</sub> (142-71-2)	-	Ex	-
	Copper chloride	CuCl <sub>2</sub> (7447-39-4)	-	Ex	-
	Copper nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub> (3251-23-8)	-	Ex	-
	Copper sulphate	CuSO <sub>4</sub> (7758-98-7)	-	Ex	-
	Ferric chloride (dry)	FeCl <sub>3</sub> (7705-08-0)	-	Ex	-
	Ferric nitrate	Fe(NO <sub>3</sub> ) <sub>3</sub> (10421-48-4)	-	Ex	-
	Ferric sulfate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (10028-22-5)	-	Ex	-
	Ferrous chloride	FeCl <sub>2</sub> (7758-94-3)	-	Ex	-
	Ferrous sulfate	FeSO <sub>4</sub> (7720-78-7)	-	Ex	-
	Lead acetate	Pb(CH <sub>3</sub> COO) <sub>2</sub> (301-04-2)	-	Ex	-
	Magnesium bisulfate	Mg(HSO <sub>4</sub> ) <sub>2</sub> (10028-26-9)	-	Ex	-
	Magnesium chloride	MgCl <sub>2</sub> (7786-30-3)	-	Ex	-
	Magnesium sulphate (Epsom salt)	MgSO <sub>4</sub> (7487-88-9)	-	Ex	-
	Mercuric chloride	HgCl <sub>2</sub> (7487-94-7)	-	Ex	-
	Mercuric cyanide	Hg(CN) <sub>2</sub> (592-04-1)	-	Ex	-
	Nickel ammonium sulfate	(NH <sub>4</sub> ) <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub> (7785-20-8)	-	Ex	-
	Nickel chloride	NiCl <sub>2</sub> (7718-54-9)	-	Ex	-
	Nickel nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub> (13138-45-9)	-	Ex	-
	Nickel sulfate	NiSO <sub>4</sub> (7786-81-4)	-	Ex	-
Potassium aluminium sulphate (potash alum)	KAl(SO <sub>4</sub> ) <sub>2</sub> (10043-67-1)	-	Ex	-	
Potassium bisulfite	KHSO <sub>3</sub> (7773-03-7)	-	Ex	-	
Potassium bromide	KBr (7758-02-3)	-	Ex	-	
Potassium carbonate	K <sub>2</sub> CO <sub>3</sub> (584-08-7)	-	Ex	-	

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Salts continued	Potassium chlorate	KClO <sub>3</sub> (3811-04-9)	-	Ex	-
	Potassium chloride	KCl (7447-40-7)	-	Ex	-
	Potassium cyanide	KCN (151-50-8)	-	Ex	-
	Potassium dichromate	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> (7778-50-9)	-	Ex	-
	Potassium diphosphate	K <sub>2</sub> HPO <sub>4</sub> (7758-11-4)	-	Ex	-
	Potassium ferricyanide	K <sub>3</sub> [Fe(CN) <sub>6</sub> ] (13746-66-2)	-	Ex	-
	Potassium ferrocyanide	K <sub>4</sub> [Fe(CN) <sub>6</sub> ] (13943-58-3)	-	Ex	-
	Potassium iodide	KI (7681-11-0)	-	Ex	-
	Potassium nitrate	KNO <sub>3</sub> (7757-79-1)	-	Ex	-
	Potassium permanganate	KMnO <sub>4</sub> (7722-64-7)	-	Ex	-
	Potassium sulfate	K <sub>2</sub> SO <sub>4</sub> (7778-80-5)	-	Ex	-
	Potassium sulfide	K <sub>2</sub> S (1059-82-5)	-	Ex	-
	Potassium sulphite	K <sub>2</sub> SO <sub>3</sub> (10117-38-1)	-	Ex	-
	Silver nitrate	AgNO <sub>3</sub> (7761-88-8)	-	Ex	-
	Sodium acetate	CH <sub>3</sub> COONa (127-09-3)	-	Ex	-
	Sodium aluminate	NaAlO <sub>2</sub> (1302-42-7)	-	Ex	-
	Sodium bicarbonate	NaHCO <sub>3</sub> (144-55-8)	-	Ex	-
	Sodium bisulfate	NaHSO <sub>4</sub> (7681-38-1)	-	Ex	-
	Sodium bisulfite	NaHSO <sub>3</sub> (7631-90-5)	-	Ex	-
	Sodium borate (borax)	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> (1303-96-4)	-	Ex	-
	Sodium bromide	NaBr (7647-15-6)	-	Ex	-
	Sodium carbonate (soda ash)	Na <sub>2</sub> CO <sub>3</sub> (497-19-8)	-	Ex	-
	Sodium chlorate	NaClO <sub>3</sub> (7775-09-9)	-	Ex	-
	Sodium chloride	NaCl (7647-14-5)	-	Ex	-
Sodium chromate	Na <sub>2</sub> CrO <sub>4</sub> (7775-11-3)	-	Ex	-	
Sodium cyanide	NaCN (143-33-9)	-	Ex	-	
Sodium fluoride	NaF (7681-49-4)	-	Ex	-	

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FN 10020



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
<b>Salts continued</b>	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	M	-
	Sodium metaphosphate	(NaPO <sub>3</sub> ) <sub>6</sub> (10124-56-8)	-	Ex	-
	Sodium metasilicate (sodium silicate)	Na <sub>2</sub> SiO <sub>3</sub> (6834-92-0)	-	Ex	-
	Sodium nitrate	NaNO <sub>3</sub> (7631-99-4)	-	Ex	-
	Sodium phosphate (dibasic)	Na <sub>2</sub> HPO <sub>4</sub> (7558-79-4)	-	Ex	-
	Sodium phosphate (tribasic)	Na <sub>3</sub> PO <sub>4</sub> (7601-54-9)	-	Ex	-
	Sodium sulfate	Na <sub>2</sub> SO <sub>4</sub> (7757-82-6)	-	Ex	-
	Sodium sulfide	Na <sub>2</sub> S (1313-82-2)	-	Ex	-
	Stannous chloride (tin chloride)	SnCl <sub>2</sub> (7772-99-8)	-	Ex	-
	Zinc chloride	ZnCl <sub>2</sub> (7646-85-7)	-	Ex	-
	Zinc hydrosulfite	ZnS <sub>2</sub> O <sub>4</sub> (7779-86-4)	-	Ex	-
	Zinc sulfate	ZnSO <sub>4</sub> (7733-02-0)	-	Ex	-

<b>Excellent</b>	<b>Ex</b>	Suitable for all reasonable applications including immersion.
<b>Good</b>	<b>G</b>	Suitable for applications involving immersion for short periods, splashing and contact with fumes.
<b>Moderate</b>	<b>M</b>	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.
<b>Poor</b>	<b>P</b>	<i>Not suitable for any applications involving contact with the chemical itself or fumes evolved from it.</i>
*		Product must be post cured to deliver quoted chemical resistance.

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