



More than just pumps



Resistance Chart

- Drum and Container Pumps
- Eccentric Worm-Drive Pumps
- Centrifugal Immersion Pumps
- Flow Meters

Construction materials of pumps and flow meters ...



... show very different characteristics. Not every material suits every liquid to the same extent.

The FLUX Resistance Chart assists you in selecting your pump and/or flow meter. It is a clearly arranged guide to show you which material suits which liquid or – the other way round – which "combinations" you should better avoid. Please consider that the chemical resistance of the construction material depends on many parameters. Even slight variations of a liquid (e.g. impurities) may have a great influence on the chemical resistance of this product.

If there are no particular indications given in this chart, the information is based on commercial purity and concentration. In case of doubt, especially for new and unknown applications, we kindly ask you to contact us for further verification.

The information given in this Resistance Chart is based on recommendations by our suppliers, reports of our clients and on the experience gained by us. This chart has been compiled by our specialists with greatest circumspection. Nevertheless this chart may only serve as a guide. Our classification may not be applied to every condition of use. Considering the multitude of decisive factors, the chemical resistance is an important one, but, in the end, only one element in the totality of operating conditions. This is the reason why we cannot assume any liability for the indications in this Resistance Chart.

The indications are as follows:

- + = resistant
- o = limited resistance
- = not resistant

Note

For transferring highly flammable liquids, which are underlined in red, only pumps in stainless steel or Hastelloy C together with explosion-proof motors must be used, which are tested and certified according to ATEX-Directive 2014/34/EU. Please observe all relevant Health & Safety Regulations.



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM	
Accumulator Acid	See Sulphuric Acid 40 %																		
Acetaldehyde	CH ₃ CHO	40			20	+	+	+	+	+	+	+		+	-	+	+	+	
Acetaldehyde	CH ₃ CHO	40			40	+	+	+	o	+	+	+		+	-	+	+	+	
Acetaldehyde	CH ₃ CHO	40			60	+	+	o	o	+	+	+		o	-	+	+	+	
Acetaldehyde	CH ₃ CHO	TR	0,79	B	20	+	+	o	o	+	+	+		o	-	o	+	+	
Acetaldehyde	CH ₃ CHO	TR			40	+	+	-	-	o	+	+		-	-	o	+	+	
Acetamide	CH ₃ CO-NH ₂	TR	0,98		20	+	+	o	+	+	+	+		+	+	+	+	+	
Acetamide	CH ₃ CO-NH ₂	TR			40	+	+	o	+	+	+	+		+	o	+	+	+	
Acetamide	CH ₃ CO-NH ₂	TR			60	+	+	-	o	+	+	+		+	-	o	+	+	
Acetanhydride	(CH ₃ CO) ₂ O	TR	1,09	All	20	+	+	+	o	o	+	+		o	-	o	+	+	
Acetanhydride	(CH ₃ CO) ₂ O	TR			40	+	+	+	o	-	+	+		-	-	-	+	+	
Acetanhydride	(CH ₃ CO) ₂ O	TR			60	+	+	o	o	-	+	+		-	-	-	+	+	
Acetic Acid	CH ₃ COOH	10			20	+	+	o	+	+	+	+	+	o	o	+	+	+	
Acetic Acid	CH ₃ COOH	10			40	+	+	o	+	+	+	+	+	-	-	+	+	+	
Acetic Acid	CH ₃ COOH	10			60	+	+	-	+	+	+	+	+	-	-	o	+	+	
Acetic Acid	CH ₃ COOH	25			20	+	+	o	+	+	+	+	+	-	-	+	+	+	
Acetic Acid	CH ₃ COOH	25			40	+	+	o	+	+	+	+	+	-	-	o	+	+	
Acetic Acid	CH ₃ COOH	25			60	+	+	-	+	+	+	+	+	-	-	-	+	+	
Acetic Acid	CH ₃ COOH	50			20	+	+	o	+	+	+	+	+	-	-	o	+	+	
Acetic Acid	CH ₃ COOH	50			40	+	+	o	+	+	+	+	+	-	-	o	+	+	
Acetic Acid	CH ₃ COOH	50			60	+	+	-	+	+	+	+	+	-	-	-	+	+	
Acetic Acid	CH ₃ COOH	80			20	+	+	-	+	+	+	+	+	-	-	o	+	+	
Acetic Acid	CH ₃ COOH	80			40	+	+	-	+	+	+	+	+	-	-	o	+	+	
Acetic Acid	CH ₃ COOH	80			60	+	+	-	o	+	+	+	+	-	-	-	+	+	
Acetic Acid	CH ₃ COOH	100	1,05		20	+	+	-	o	+	+	+	+	-	-	o	+	+	
Acetic Acid	CH ₃ COOH	100			40	+	+	-	o	+	+	+	+	-	-	-	+	+	
Acetic Acid	CH ₃ COOH	100			60	+	+	-	o	o	+	+	+	-	-	-	+	+	
Acetic Anhydride	See Acetanhydride																		
Acetic Ether	See Ethyl Acetate																		
Acetic Methyl Ester	CH ₃ CO ₂ CH ₃	100	0,93	Al	20	+	+	-	+	+	+	+		-	-	-	+	+	
Acetic Methyl Ester	CH ₃ CO ₂ CH ₃	100			40	+	+	-	+	o	+	+		-	-	-	+	+	
Acetic Methyl Ester	CH ₃ CO ₂ CH ₃	100			60	+	+	-	+	-	+	+		-	-	-	+	+	
Acetone	CH ₃ CO-CH ₃ +H ₂ O	10		B	20	+	+	+	+	+	+	+	+	o	-	+	+	+	
Acetone	CH ₃ CO-CH ₃ +H ₂ O	10			40	+	+	+	+	+	+	+	+	o	-	o	+	+	
Acetone	CH ₃ CO-CH ₃ +H ₂ O	10			60	+	+	o	o	+	+	+	+	-	-	-	+	+	
Acetone	CH ₃ CO-CH ₃	TR	0,79	B	20	+	+	+	+	o	+	+	+	-	-	+	+	+	
Acetone	CH ₃ CO-CH ₃	TR			40	+	+	o	+	o	+	+	+	-	-	o	+	+	
Acetone	CH ₃ CO-CH ₃	TR			60	+	+	o	o	-	+	+	+	-	-	-	+	+	
Acetonitrile	CH ₃ -CN	TR	0,78	B	20	+	+	+	+	o	+	+	+	o	-	o	+	+	
Acetonitrile	CH ₃ -CN	TR			40	+	+	+	+	-	+	+		o	-	-	+	+	
Acetonitrile	CH ₃ -CN	TR			60	-	+	+	+	-	+	+		o	-	-	+	+	
Acetylene Dichloride	See Dichloroethylene 1,1																		
Acrylonitrile	CH ₂ =CH-CN	TR	0,81	Al	20	+	+	+	+	+	+	+		o	-	o	+	+	
Acrylonitrile	CH ₂ =CH-CN	TR			40	+ ¹⁾	+	+	o	o	+	o		o	-	o	+	+	
Acrylonitrile	CH ₂ =CH-CN	TR			60	+ ¹⁾	+	+	o	o	+	o		o	-	-	+	+	
Adipic Acid	C ₇ H ₁₂ O ₂	GL	0,89	All	20	+	+	o	+	+	+	+		+	+	+	+	+	

TR = technically pure, GL = saturated solution, H = commercial composition
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Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Adipic Acid	C ₇ H ₁₂ O ₂	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Adipic Acid	C ₇ H ₁₂ O ₂	GL			60	+	+	-	+	+	+	+		+	+	+	+	+
Allyl Alcohol	H ₂ C=CH-CH ₂ -OH	96	0,87	B	20	+	+	o	+	+	+	+		o	+	o	+	+
Allyl Alcohol	H ₂ C=CH-CH ₂ -OH	96			40	+	+	o	+	+	+	+		-	+	o	+	+
Allyl Alcohol	H ₂ C=CH-CH ₂ -OH	96			60	+	+	o	+	+	+	+		-	+	o	+	+
Alum	See Potassium Aluminium Sulphate																	
Aluminium Chloride	AlCl ₃	10			20	o	+	-	+	+	+	+		+	+	+	+	+
Aluminium Chloride	AlCl ₃	10			40	o	+	-	+	+	+	+		+	+	+	+	+
Aluminium Chloride	AlCl ₃	10			60	o	+	-	+	+	+	+		+	o	+	+	+
Aluminium Chloride	AlCl ₃	GL	2,40		20	-	+	-	+	+	+	+		+	+	+	+	+
Aluminium Chloride	AlCl ₃	GL			40	-	+	-	+	+	+	+		+	+	+	+	+
Aluminium Chloride	AlCl ₃	GL			60	-	o	-	+	+	+	+		+	+	+	+	+
Aluminium Nitrate	Al(NO ₃) ₃	GL			20	+	+	-	+	+	+	+		+	+	+	+	+
Aluminium Nitrate	Al(NO ₃) ₃	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Aluminium Nitrate	Al(NO ₃) ₃	GL			60	o	+	-	+ ¹⁾	+	+	-		+	o	+	+	+
Aluminium Sulphate	Al ₂ (SO ₄) ₃	10			20	+	+	-	+	+	+	+		+	+	+	+	+
Aluminium Sulphate	Al ₂ (SO ₄) ₃	10			40	+	+	-	+	+	+	+		+	+	+	+	+
Aluminium Sulphate	Al ₂ (SO ₄) ₃	10			60	+	+	-	+	+	+	+		+	+	+	+	+
Aluminium Sulphate	Al ₂ (SO ₄) ₃	GL	1,61		20	+	+	-	+	+	+	+		+	+	+	+	+
Aluminium Sulphate	Al ₂ (SO ₄) ₃	GL			40	o	+	-	+	+	+	+		+	+	+	+	+
Aluminium Sulphate	Al ₂ (SO ₄) ₃	GL			60	o	o	-	+	+	+	+		+	+	o	+	+
Amino Acid Amide	See Formamide																	
Ammonia Solution	See Ammonia Water																	
Ammonia Water	NH ₄ ClOH	GL			20	+	+	+	+	+	+	+		-	+	+	+	+
Ammonia Water	NH ₄ ClOH	GL			40	+	+	+	+	+	+	+		-	o	+	+	+
Ammonia Water	NH ₄ ClOH	GL			60	+	+	+	+	+	+	+		-	o	+	+	+
Ammonium Acetate	CH ₃ -COONH ₄ Cl+H ₂ O				20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Acetate	CH ₃ -COONH ₄ Cl+H ₂ O				40	+	+	o	+	+	+	+		+	+	+	+	+
Ammonium Acetate	CH ₃ -COONH ₄ Cl+H ₂ O				60	+ ¹⁾	+	o	+ ¹⁾	+	+	o		+	+	+	+	+
Ammonium Bromide	NH ₄ Br+H ₂ O	40	1,27		20	o	+	-	+	+	+	+		+	+	+	+	+
Ammonium Bromide	NH ₄ Br+H ₂ O	40			40	o	+	-	+	+	+	+		+	+	+	+	+
Ammonium Bromide	NH ₄ Br+H ₂ O	40			60	-	o	-	+	+	+	+		+	+	+	+	+
Ammonium Carbonate	(NH ₄) ₂ CO ₃ +H ₂ O	25			20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Carbonate	(NH ₄) ₂ CO ₃ +H ₂ O	25			40	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Carbonate	(NH ₄) ₂ CO ₃ +H ₂ O	25			60	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Chloride	NH ₄ Cl+H ₂ O	GL	1,07		20	+	+	-	+	+	+	+		+	+	+	+	+
Ammonium Chloride	NH ₄ Cl+H ₂ O	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Ammonium Chloride	NH ₄ Cl+H ₂ O	GL			60	o	+	-	+	+	+	+		+	+	+	+	+
Ammonium Fluoride	NH ₄ F+H ₂ O	14			20	o	+	-	+	+	+	+		+	+	+	+	+
Ammonium Fluoride	NH ₄ F+H ₂ O	14			40	o	+	-	+	+	+	+		+	+	+	+	+
Ammonium Fluoride	NH ₄ F+H ₂ O	14			60	-	+	-	+	+	+	+		+	+	o	+	+
Ammonium Fluosilicate	(NH ₄) ₂ SiF ₆ +H ₂ O	TR			20	+	+	-	+	+	+	+		+	+	+	+	+
Ammonium Hydrogen Fluoride	(NH ₄)HF ₂	50			20	o	o	-	+	+	+	+		+	-	+	+	+
Ammonium Hydrogen Fluoride	(NH ₄)HF ₂	50			40	-	o	-	+	+	+	+		o	-	-	+	+
Ammonium Hydrogen Fluoride	(NH ₄)HF ₂	50			60	-	o	-	+	+	+	+		o	-	-	+	+
Ammonium Monophosphate	See Ammonium Phosphate																	
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	10			60	+	+	+	+	+	+	+		+	o	+	+	+

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 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	50	1,23		20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	50			40	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	50			60	+	+	+	+	+	+	+		+	o	+	+	+
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	GL			20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	GL			40	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Nitrate	NH ₄ NO ₃ +H ₂ O	GL			60	+	+	+	+	+	+	+		+	o	+	+	+
Ammonium Oxalate	(COONH ₄) ₂ + H ₂ O	TR	1,50		20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Oxalate	(COONH ₄) ₂ + H ₂ O	TR			40	+	+	+	o	+	+	+		+	+	+	+	+
Ammonium Oxalate	(COONH ₄) ₂ + H ₂ O	TR			60	+	+	+	o	+	+	+		+	+	o	+	+
Ammonium Perchlorate	NH ₄ ClO ₄ +H ₂ O	14	1,07		20	+	+	+	o	+	+	+		+	o	o	+	+
Ammonium Perchlorate	NH ₄ ClO ₄ +H ₂ O	14			40	o	+	o	o	+	+	+		+	-	o	+	+
Ammonium Perchlorate	NH ₄ ClO ₄ +H ₂ O	14			60	o	o	-	o	+	+	+		+	-	o	+	+
Ammonium Phosphate	NH ₄ H ₂ PO ₄ +H ₂ O	10			20	+	+	-	+	+	+	+		+	+	+	+	+
Ammonium Phosphate	NH ₄ H ₂ PO ₄ +H ₂ O	10			40	+	+	-	+	+	+	+		+	+	+	+	+
Ammonium Phosphate	NH ₄ H ₂ PO ₄ +H ₂ O	10			60	+	+	-	+	+	+	+		+	o	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	10			40	+	+	o	+	+	+	+		+	+	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	10			60	+ ¹⁾	+	o	+ ¹⁾	+	+	o		+	o	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	50	1,28		20	+	+	+	+	+	+	+		+	+	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	50			40	+ ¹⁾	+	o	+ ¹⁾	+	+	o		+	+	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	50			60	+ ¹⁾	+	o	+ ¹⁾	+	+	o		+	o	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	GL	1,30		20	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	GL			40	+ ¹⁾	+	o	+ ¹⁾	+	+	o		+	+	+	+	+
Ammonium Sulphate	(NH ₄) ₂ SO ₄ +H ₂ O	GL			60	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	o	+	+	+
Ammonium Sulphide	NH ₄ S+H ₂ O	10			20	+	+	-	+	+	+	+		+	+	+	+	+
Ammonium Sulphide	NH ₄ S+H ₂ O	10			40	+ ¹⁾	+	-	+ ¹⁾	+	+	o		+	o	+	+	+
Ammonium Sulphide	NH ₄ S+H ₂ O	10			60	+ ¹⁾	+	-	+ ¹⁾	+	+	o		+	o	+	+	+
Amyl Acetate	CH ₃ -COOC ₅ H ₁₁	TR	0,88	All	20	+	+	+	o	+	+	+		-	-	o	+	+
Amyl Acetate	CH ₃ -COOC ₅ H ₁₁	TR			40	+	+	+	-	o	+	+		-	-	-	+	+
Amyl Acetate	CH ₃ -COOC ₅ H ₁₁	TR			60	+ ¹⁾	+	+	-	o	+	o		-	-	-	+	+
Amyl Alcohol	C ₅ H ₁₁ OH	TR	0,82	All	20	+	+	+	+	+	+	+		+	+	+	+	+
Amyl Alcohol	C ₅ H ₁₁ OH	TR			40	+	+	o	+	+	+	+		+	o	+	+	+
Amyl Alcohol	C ₅ H ₁₁ OH	TR			60	+	+	o	+	+	+	+		o	o	+	+	+
Amyl Chloride	CH ₃ (CH ₂) ₄ Cl	TR	0,87	AI	20	o	+	-	+	+	+	+		+	o	+	+	+
Amyl Chloride	CH ₃ (CH ₂) ₄ Cl	TR			40	-	+	-	o	+	+	+		+	o	+	+	+
Amyl Chloride	CH ₃ (CH ₂) ₄ Cl	TR			60	-	o	-	o	+	+	o		o	o	o	+	+
Aniline	C ₆ H ₅ NH ₂	TR	1,01	AllI	20	+	+	+	o	+	+	+		+	-	o	+	+
Aniline	C ₆ H ₅ NH ₂	TR			40	+	+	+	-	o	+	+		o	-	-	+	+
Aniline	C ₆ H ₅ NH ₂	TR			60	+ ¹⁾	+	+	-	o	+	o		o	-	-	+	+
Anone						See Cyclohexanone												
Aqua Regia	3HCl+HNO ₃				20	-	-	-	-	o	+	-		o	-	o	+	+
Aqua Regia	3HCl+HNO ₃				40	-	-	-	-	-	+	-		-	-	-	+	+
Aqua Regia	3HCl+HNO ₃				60	-	-	-	-	-	+	-		-	-	-	+	+
Arsenic Acid	H ₃ ASO ₄	10			20	+	+	-	+	+	+	+		+	+	+	+	+
Arsenic Acid	H ₃ ASO ₄	10			40	+	+	-	+	+	+	+		+	+	+	+	+
Arsenic Acid	H ₃ ASO ₄	10			60	+	+	-	+	+	+	+		+	+	+	+	+
Arsenic Acid	H ₃ ASO ₄	80			20	+	+	-	+	+	+	+		+	+	+	+	+
Arsenic Acid	H ₃ ASO ₄	80			40	+	+	-	+	+	+	+		+	+	+	+	+
Arsenic Acid	H ₃ ASO ₄	80			60	+	+	-	+	+	+	+		+	+	+	+	+

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Barium Chloride	BaCl ₂	10			20	-	+	o	+	+	+	+		+	+	+	+	+
Barium Chloride	BaCl ₂	10			40	-	+	o	+	+	+	+		+	+	+	+	+
Barium Chloride	BaCl ₂	25	1,27		20	o	+	o	+	+	+	+		+	+	+	+	+
Barium Chloride	BaCl ₂	25			40	o	+	o	+	+	+	+		+	+	+	+	+
Barium Hydroxide	Ba(OH) ₂	GL			20	+ ¹⁾	+	-	+ ¹⁾	+	+	o		+	+	+	+	+
Barium Hydroxide	Ba(OH) ₂	GL			40	+ ¹⁾	+	-	+ ¹⁾	+	+	o		+	+	+	+	+
Barium Hydroxide	Ba(OH) ₂	GL			60	+ ¹⁾	+	-	+ ¹⁾	o	+	o		+	+	+	+	+
Barium Sulphide	BaS	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Benzaldehyde	C ₆ H ₅ CHO		1,05		20	+ ¹⁾	+	+	o	+	+	o		+	o	o	+	+
Benzaldehyde	C ₆ H ₅ CHO				40	+ ¹⁾	+	+	o	o	+	o		+	o	o	+	+
Benzaldehyde	C ₆ H ₅ CHO				60	+ ¹⁾	+	+	-	o	+	-		+	o	o	+	+
Benzaldehyde	C ₆ H ₅ CHO	30			20	+ ¹⁾	+	o	-	+	+	o		+	-	-	+	+
Benzaldehyde	C ₆ H ₅ CHO	TR	1,05	Alll	20	+	+	o	o	+	+	+		o	-	o	+	+
Benzene	C₆H₆	TR	0,88	AI	20	+	+	+	-	+	+	+		+	-	-	+	+
Benzoic Acid	C ₆ H ₅ COOH	10	1,27		20	+	+	+	+	+	+	+		+	-	-	+	+
Benzoic Acid	C ₆ H ₅ COOH	10			40	+	+	o	+	+	+	+		+	-	-	+	+
Benzoic Acid	C ₆ H ₅ COOH	10			60	+	+	o	o	+	+	+		+	-	-	+	+
Benzyl Alcohol	C ₆ H ₅ -CH ₂ OH	TR	1,04		20	+	+	+	+	+	+	+		o	-	+	+	+
Benzyl Alcohol	C ₆ H ₅ -CH ₂ OH	TR			40	+	+	+	+	+	+	+		o	-	o	+	+
Benzyl Alcohol	C ₆ H ₅ -CH ₂ OH	TR			60	+	+	+	o	+	+	+		o	-	o	+	+
Benzyl Chloride	C ₆ H ₅ -CH ₂ Cl		1,11	Alll	20	+	+	-	-	+	+	+		+	-	-	+	+
Benzyl Chloride	C ₆ H ₅ -CH ₂ Cl				40	+	+	-	-	+	+	+		+	-	-	+	+
Benzyl Chloride	C ₆ H ₅ -CH ₂ Cl				60	+	+	-	-	o	+	+		+	-	-	+	+
Bitter Almond Oil	See Benzaldehyde																	
Bitter Salt	See Magnesium Sulphate																	
Bleaching Solution	See Sodium Hypochlorite																	
Blue Vitriol	See Copper Sulphate																	
Borax	Na ₂ B ₄ O ₇ +10 H ₂ O	10	1,03		20	+	+	-	+	+	+	+		+	+	+	+	+
Borax	Na ₂ B ₄ O ₇ +10 H ₂ O	10			40	+	+	-	+	+	+	+		+	+	+	+	+
Borax	Na ₂ B ₄ O ₇ +10 H ₂ O	10			60	+	+	-	+	+	+	+		+	+	+	+	+
Borax	Na ₂ B ₄ O ₇ +10 H ₂ O	GL			20	+	+	-	+	+	+	+		+	+	+	+	+
Borax	Na ₂ B ₄ O ₇ +10 H ₂ O	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Borax	Na ₂ B ₄ O ₇ +10 H ₂ O	GL			60	+	+	-	+	+	+	+		+	+	+	+	+
Boric Acid	H ₃ BO ₃ +H ₂ O	10	1,01		20	+	+	+	+	+	+	+		+	+	+	+	+
Boric Acid	H ₃ BO ₃ +H ₂ O	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Boric Acid	H ₃ BO ₃ +H ₂ O	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Boric Acid	H ₃ BO ₃ +H ₂ O	GL			20	+	+	-	+	+	+	+		+	+	+	+	+
Boric Acid	H ₃ BO ₃ +H ₂ O	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Boric Acid	H ₃ BO ₃ +H ₂ O	GL			60	+	+	-	+	+	+	+		+	+	+	+	+
Boron Trifluoride	BF ₃ +H ₂ O	10			20	o	o	-	+	+	+	+		+	+	+	+	+
Brake Fluid	Glycol Ether					+	+	+	+	+	+	+		-	-	+	+	+
Bromic Acid	HBrO ₃	10			20	o	+	-	+ ¹⁾	+	+	o		+	-	+	+	+
Bromic Acid	HBrO ₃	10			40	-	+	-	+ ¹⁾	+	+	o		+	-	+	+	+
Bromic Acid	HBrO ₃	10			60	-	+	-	o	+	+	o		+	-	o	+	+
Bromine	Br ₂	TR	3,19		20	-	+	-	-	+	+	-		o	-	-	+	+
Butane Carbonic Acid	See Butyric Acid																	
Butane Diol	HO(CH ₂) ₄ OH	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Butane Diol	HO(CH ₂) ₄ OH	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Butane Diol	HO(CH ₂) ₄ OH	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Butane Diol	HO(CH ₂) ₄ OH	TR			20	+	+	+	o	+	+	+		+	-	+	+	+

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Butane Diol	HO(CH ₂) ₄ OH	TR			40	+	+	o	o	+	+	+		+	-	+	+	+
Butane Diol	HO(CH ₂) ₄ OH	TR			60	+	+	-	o	+	+	+		o	-	+	+	+
Butane Triol	C ₄ H ₁₀ O ₃	TR			20	+	+	-	+	+	+	+		o	+	+	+	+
Butanol	C ₄ H ₉ OH	TR	0,81	All	20	+	+	+	+	+	+	+		+	+	+	+	+
Butanol	C ₄ H ₉ OH	TR			40	+	+	+	o	+	+	o		o	+	+	+	+
Butanol	C ₄ H ₉ OH	TR			60	+	+	+	o	+	+	-		o	+	+	+	+
Butanone (MEK)	C ₄ H ₈ O	TR	0,81	Al	20	+	+	-	+	-	+	o		-	-	+	+	+
Butanone (MEK)	C ₄ H ₈ O	TR			40	+	+	-	o	-	+	-		-	-	o	+	+
Butanone (MEK)	C ₄ H ₈ O	TR			60	+	+	-	o	-	+	-		-	-	o	+	+
Butenal, trans-2-	See Propylene Aldehyde																	
Butyl Acetate	C ₆ H ₁₂ O ₂	TR	0,88	All	20	+ ¹⁾	+	+	o	+	+	+		o	-	+	+	+
Butyl Acrylate	C ₅ H ₈ O ₂	TR		Al	20	+	+	o	-	o	+	+		-	-	o	+	+
Butyl Alcohol	See Butanol																	
Butyl Chloride	C ₄ H ₉ Cl	TR	0,89	Al	20	o	+	-	+	+	+	+		-	-	-	+	+
Butyl Chloride	C ₄ H ₉ Cl	TR			40	o	+	-	+ ¹⁾	+	+	o		-	-	-	+	+
Butyl Chloride	C ₄ H ₉ Cl	TR			60	o	+	-	+ ¹⁾	+	+	o		-	-	-	+	+
Butyl Ether	See Dibutyl Ether																	
Butyl Phenol	HOC ₆ H ₄ C(CH ₃) ₃	TR			20	+	+	-	+	+	+	+		o	-	-	+	+
Butyric Acid	C ₃ H ₇ COOH	20	0,88		20	+	+	+	-	+	+	+		+	-	+	+	+
Butyric Acid	C ₃ H ₇ COOH	TR	0,96		20	+	+	+	-	+	+	+		o	-	o	+	+
Calcium Bisulphite	Ca(HSO ₃) ₂	10			20	+ ¹⁾	+	o	+ ¹⁾	+	+	o		+	-	+	+	+
Calcium Bisulphite	Ca(HSO ₃) ₂	GL			20	+ ¹⁾	+	o	+ ¹⁾	+	+	-		+	-	+	+	+
Calcium Bisulphite	Ca(HSO ₃) ₂	GL			40	+ ¹⁾	+	o	+ ¹⁾	+	+	-		+	-	+	+	+
Calcium Bisulphite	Ca(HSO ₃) ₂	GL			60	+ ¹⁾	+	o	+ ¹⁾	+	+	-		+	-	+	+	+
Calcium Chlorate	CaClO ₃ +H ₂ O	10			20	+	+	o	+	+	+	+		+	+	+	+	+
Calcium Chloride	CaCl ₂ +H ₂ O	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Calcium Chloride	CaCl ₂ +H ₂ O	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Calcium Chloride	CaCl ₂ +H ₂ O	10			60	o	o	+	+	+	+	+		+	+	+	+	+
Calcium Chloride	CaCl ₂ +H ₂ O	GL	1,40		20	+	+	o	+	+	+	+		+	+	+	+	+
Calcium Chloride	CaCl ₂ +H ₂ O	GL			40	+	+	o	+	+	+	+		+	+	+	+	+
Calcium Chloride	CaCl ₂ +H ₂ O	GL			60	o	+	o	+	+	+	+		+	+	+	+	+
Calcium Hydroxide	Ca(OH) ₂	15			20	+	+	-	+	+	+	+		+	+	+	+	+
Calcium Hydroxide	Ca(OH) ₂	15			40	+	+	-	+	+	+	+		+	+	+	+	+
Calcium Hydroxide	Ca(OH) ₂	15			60	+	+	-	+	+	+	+		+	o	+	+	+
Calcium Hypochlorite	Ca(OCl) ₂	10			20	o	+	-	+ ¹⁾	+	+	o		+	+	+	+	+
Calcium Hypochlorite	Ca(OCl) ₂	10			40	o	+	-	+ ¹⁾	+	+	o		+	o	+	+	+
Calcium Hypochlorite	Ca(OCl) ₂	10			60	-	o	-	+ ¹⁾	+	+	o		+	-	+	+	+
Calcium Nitrate	Ca(NO ₃) ₂	50	1,48		20	+	+	+	+	+	+	+		+	+	+	+	+
Calcium Nitrate	Ca(NO ₃) ₂	50			40	+	+	+	+	+	+	+		+	+	+	+	+
Camphor	C ₁₀ H ₁₆ O				20	+	+	+	+	+	+	+		o	+	o	+	+
Camphor	C ₁₀ H ₁₆ O				40	+	+	+	+	+	+	+		o	o	o	+	+
Camphor	C ₁₀ H ₁₆ O				60	+	+	+	+	+	+	+		o	o	o	+	+
Caprylic Acid	CH ₃ (CH ₂) ₆ COOH		0,92		20	+ ¹⁾	+	-	+ ¹⁾	+	+	o		+	-	+	+	+
Caprylic Acid	CH ₃ (CH ₂) ₆ COOH				40	+ ¹⁾	+	-	o	+	+	o		+	-	o	+	+
Caprylic Acid	CH ₃ (CH ₂) ₆ COOH				60	+ ¹⁾	+	-	-	+	+	o		o	-	-	+	+
Carbamide	See Urea																	
Carbolic Acid	See Phenol																	
Carbon Bisulphide	CS ₂	TR	1,27	Al	20	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	-	o	+	+
Carbon Bisulphide	CS ₂	TR			40	+ ¹⁾	+	+	o	+	+	o		+	-	-	+	+
Carbon Bisulphide	CS ₂	TR			60	+	+	+	o	+	+	-		+	-	-	+	+

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM	
Carbon Disulphide	See Carbon Bisulphide																		
Carbon Tetrachloride	See Tetrachloromethane																		
Carbonic Acid	See Fatty Acids																		
Caster Oil	See Ricinus Oil																		
Caustic Baryta	See Barium Hydroxide																		
Caustic Potash Solution	See Potassium Hydroxide																		
Caustic Soda	See Sodium Hydroxide																		
Cellosolve	See Ethyl Glycol																		
Chloric Acid	HClO ₃	10			20	o	+	-	+ ¹⁾	+	+	-		+	-	+	+	+	
Chloric Acid	HClO ₃	10			40	o	o	-	+ ¹⁾	+	+	-		+	-	+	+	+	
Chloric Acid	HClO ₃	10			60	o	o	-	o	+	+	-		+	-	+	+	+	
Chlorinated Diphenyl	C ₁₂ H ₉ Cl	TR			20	+ ¹⁾	+	+	-	+	+	o		+	-	-	+	+	
Chlorine Bleaching	See Sodium Hypochlorite																		
Chlorine Water	Cl ₂ + H ₂ O	GL			20	o	+	-	o	+	+	o	o	-	-	+	+	+	
Chlorine Water	Cl ₂ + H ₂ O	GL			40	o	+	-	o	+	+	o	o	-	-	+	+	+	
Chlorine Water	Cl ₂ + H ₂ O	GL			60	o	o	-	o	+	+	-	-	-	-	o	+	+	
Chloroacetic Acid	C ₂ H ₃ ClO ₂	85	1,36		20	-	+	-	+ ¹⁾	+	+	o	-	+	-	+	+	+	
Chloroacetic Acid	C ₂ H ₃ ClO ₂	85			40	-	o	-	+ ¹⁾	+	+	-	-	+	-	+	+	+	
Chloroacetic Acid	C ₂ H ₃ ClO ₂	85			60	-	o	-	+ ¹⁾	+	+	-	-	+	-	+	+	+	
Chloroacetic Acid	C ₂ H ₃ ClO ₂	98			20	-	+	-	+ ¹⁾	+	+	o	-	+	-	+	+	+	
Chloroacetic Acid	C ₂ H ₃ ClO ₂	98			40	-	o	-	+ ¹⁾	+	+	-	-	+	-	+	+	+	
Chloroacetic Acid	C ₂ H ₃ ClO ₂	98			60	-	o	-	+ ¹⁾	+	+	-	-	+	-	+	+	+	
Chlorobenzene	C ₆ H ₅ Cl	TR	1,11	All	20	+	+	+	o	+	+	+		+	-	-	+	+	
Chlorobenzene	C ₆ H ₅ Cl	TR			40	+	+	+	o	+	+	+		-	-	-	+	+	
Chlorobenzene	C ₆ H ₅ Cl	TR			60	+	+	+	-	+	+	+		-	-	-	+	+	
Chlorobutane	See Butyl Chloride																		
Chloroethane	C ₂ H ₅ Cl	TR	0,92		20	+	+	+	-	+	+	+		o	-	o	+	+	
Chloroethanol	ClH ₂ C-CH ₂ OH	TR	1,20		20	+ ¹⁾	+	-	+ ¹⁾	+	+	o		-	+	o	+	+	
Chloroethanol	ClH ₂ C-CH ₂ OH	TR			40	+ ¹⁾	+	-	+ ¹⁾	o	+	o		-	o	o	+	+	
Chloroethanol	ClH ₂ C-CH ₂ OH	TR			60	+ ¹⁾	+	-	+ ¹⁾	o	+	o		-	-	o	+	+	
Chloroethene	See Trichlorethane																		
Chloroform	CHCl ₃	TR	1,48		20	+ ¹⁾	+	-	o	+	+	-		o	-	-	+	+	
Chlorosulphonic Acid	HOSO ₂ Cl	TR	1,77		20	+ ¹⁾	+	-	-	-	+	-		o	-	-	+	+	
Chlorotoluene	See Benzyl Chloride																		
Chromic Acid	CrO ₃ +H ₂ O	30			20	o	+	-	o	+	+	o	-	+	-	-	+	+	
Chromic Acid	CrO ₃ +H ₂ O	50			20	o	o	-	-	+	+	o	-	+	-	-	+	+	
Chromic Acid	CrO ₃ +H ₂ O	50			40	o	o	-	-	+	+	-	-	+	-	-	+	+	
Chromic Acid	CrO ₃ +H ₂ O	50			60	o	o	-	-	+	+	-	-	+	-	-	+	+	
Chromic-Sulphuric-Acid-Mixture	H ₂ SO ₄ +H ₂ O+CrO ₃	50			20	o	o	-	o	+	+	-	-	+	-	-	+	+	
Chromic-Sulphuric-Acid-Mixture	H ₂ SO ₄ +H ₂ O+CrO ₃	50			40	o	o	-	-	+	+	-	-	+	-	-	+	+	
Chromic-Sulphuric-Acid-Mixture	H ₂ SO ₄ +H ₂ O+CrO ₃	50			60	o	o	-	-	+	+	-	-	+	-	-	+	+	
Chromium Trioxide	See Chromic Acid																		
Citric Acid	C ₆ H ₈ O ₇	50	1,22		20	+	+	-	+	+	+	+		+	+	+	+	+	
Citric Acid	C ₆ H ₈ O ₇	50			40	o	+	-	+	+	+	+		+	+	+	+	+	
Citric Acid	C ₆ H ₈ O ₇	50			60	o	+	-	+	+	+	+		+	+	+	+	+	
Clophene	See Chlorinated Diphenyl																		
Clove Oil	See Essential Oils																		
Copper Acetate	(CH ₃ CO ₂) ₂ Cu	50			20	+	+	-	+	+	+	+		+	+	+	+	+	
Copper Acetate	(CH ₃ CO ₂) ₂ Cu	50			40	+	+	-	+	+	+	+		+	+	+	+	+	
Copper Acetate	(CH ₃ CO ₂) ₂ Cu	50			60	+	+	-	+	+	+	+		+	o	+	+	+	

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3.16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Copper Nitrate	Cu(NO ₃) ₂	25	1,25		20	+	+	+	o	+	+	+		+	+	+	+	+
Copper Nitrate	Cu(NO ₃) ₂	25			40	+	+	+	o	+	+	+		+	+	+	+	+
Copper Nitrate	Cu(NO ₃) ₂	25			60	+	+	+	o	+	+	+		+	o	+	+	+
Copper Sulphate	CuSO ₄	18	1,21		20	+	+	-	+	+	+	+		+	+	+	+	+
Copper Sulphate	CuSO ₄	18			40	+	+	-	+	+	+	+		+	+	+	+	+
Copper Sulphate	CuSO ₄	18			60	+	+	-	+	+	+	+		+	+	+	+	+
Copper Sulphate	CuSO ₄	GL			20	+	+	-	o	+	+	+		+	+	+	+	+
Copper Sulphate	CuSO ₄	GL			40	+	+	-	o	+	+	+		+	+	+	+	+
Copper Sulphate	CuSO ₄	GL			60	+	+	-	o	+	+	+		+	o	+	+	+
Corn Oil		TR			20	+	+	-	+	+	+	+		+	+	+	+	+
Corn Oil		TR			40	+	+	-	+	+	+	+		+	+	o	+	+
Corn Oil		TR			60	+	+	-	o	+	+	+		+	+	-	+	+
Crotonaldehyde	See Propylene aldehyde																	
Cupric Chloride	CuCl ₂	20	1,21		20	o	+	-	+	+	+	+		+	+	+	+	+
Cupric Chloride	CuCl ₂	20			40	o	+	-	+	+	+	+		+	+	+	+	+
Cupric Chloride	CuCl ₂	20			60	o	+	-	+	+	+	+		+	+	+	+	+
Cuprous Chloride	CuCl	10			20	o	+	-	+	+	+	+		+	+	+	+	+
Cuprous Chloride	CuCl	10			40	o	+	-	+	+	+	+		+	+	+	+	+
Cuprous Chloride	CuCl	10			60	o	+	-	+	+	+	+		+	+	+	+	+
Cyclohexane	C ₆ H ₁₂	TR	0,78	Al	20	+	+	+	+	+	+	+		+	+	-	+	+
Cyclohexane	C ₆ H ₁₂	TR			40	+	+	+	+	+	+	+		+	+	-	+	+
Cyclohexane	C ₆ H ₁₂	TR			60	+	+	+	o	+	+	+		o	-	-	+	+
Cyclohexanol	C ₆ H ₁₂ O	TR	0,94	AllI	20	+	+	-	+	+	+	+		o	o	o	+	+
Cyclohexanol	C ₆ H ₁₂ O	TR			40	+	+	-	+	+	+	+		o	o	o	+	+
Cyclohexanone	C ₆ H ₁₀ O	TR	0,95	All	20	+	+	+	+	+	+	+		-	-	o	+	+
Decahydronaphtalin	See Decaline																	
Decaline	C ₁₀ H ₁₈	TR	0,88	AllI	20	+	+	+	o	+	+	+		+	o	-	+	+
Decaline	C ₁₀ H ₁₈	TR			40	+ ¹⁾	+	+	o	+	+	o		+	o	-	+	+
Decaline	C ₁₀ H ₁₈	TR			60	+ ¹⁾	+	+	o	+	+	o		+	o	-	+	+
Dextrine	C ₆ H ₁₀ O ₅ +H ₂ O	18			20	+	+	+	+	+	+	+		+	+	+	+	+
Dextrine	C ₆ H ₁₀ O ₅ +H ₂ O	18			40	+	+	+	+	+	+	+		+	o	+	+	+
Dextrine	C ₆ H ₁₀ O ₅ +H ₂ O	18			60	+	+	+	+	+	+	+		+	o	+	+	+
Dextrine	C ₆ H ₁₀ O ₅ +H ₂ O	GL			20	+	+	+	+	+	+	+		+	+	+	+	+
Diacetone Alcohol	(CH ₃) ₂ C(OH)CH ₂ COCH ₃	TR		B	20	+	+	-	-	+	+	+		+	-	+	+	+
Diacetone Alcohol	(CH ₃) ₂ C(OH)CH ₂ COCH ₃	TR			40	+	+	-	-	+	+	+		+	-	+	+	+
Diacetone Alcohol	(CH ₃) ₂ C(OH)CH ₂ COCH ₃	TR			60	+	+	-	-	+	+	+		+	-	+	+	+
Diamide	See Hydrazine																	
Dibromoethane	See Ethylene Bromide																	
Dibutyl Ether	C ₈ H ₁₈ O	TR	0,77	All	20	+ ¹⁾	+	-	o	+	+	o		-	+	o	+	+
Dibutyl Ether	C ₈ H ₁₈ O	TR			40	+ ¹⁾	+	-	-	+	+	-		-	o	o	+	+
Dibutyl Ether	C ₈ H ₁₈ O	TR			60	+ ¹⁾	+	-	-	+	+	-		-	-	o	+	+
Dibutyl Phtalate	C ₆ H ₄ (CO ₂ C ₄ H ₉) ₂	TR	1,05		20	+	+	+	+	+	+	+		o	-	o	+	+
Dibutyl Phtalate	C ₆ H ₄ (CO ₂ C ₄ H ₉) ₂	TR			40	+ ¹⁾	+	+	o	+	+	+		-	-	-	+	+
Dibutyl Phtalate	C ₆ H ₄ (CO ₂ C ₄ H ₉) ₂	TR			60	+ ¹⁾	+	+	o	o	+	+		-	-	-	+	+
Dibutyl Sebacate	C ₁₈ H ₃₄ O ₄	TR	0,94		20	+ ¹⁾	+	-	+ ¹⁾	+	+	o		o	-	-	+	+
Dibutyl Sebacate	C ₁₈ H ₃₄ O ₄	TR			40	+ ¹⁾	+	-	+ ¹⁾	+	+	o		o	-	-	+	+
Dibutyl Sebacate	C ₁₈ H ₃₄ O ₄	TR			60	+ ¹⁾	+	-	+ ¹⁾	+	+	o		o	-	-	+	+
Dicapric Acid	See Adipic Acid																	
Dichloro Acetic Acid	CHCl ₂ CO ₂ H	TR	1,56		20	-	+	-	+ ¹⁾	+	+	-		o	-	+	+	+
Dichloro Acetic Acid	CHCl ₂ CO ₂ H	TR			40	-	o	-	+ ¹⁾	+	+	-		o	-	+	+	+

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Dichloro Acetic Acid	CHCl ₂ CO ₂ H	TR			60	-	o	-	o	+	+	-		-	-	o	+	+
Dichlorodifluorine-Methane	CF ₂ Cl ₂	TR	1,32		20	+	+	-	-	+	+ ¹⁾	+		o	o	o	+	+
Dichloroethane						See Chloroethane												
Dichloroethylene 1,1	C ₂ H ₂ Cl ₂	TR	1,22	AI	20	+ ¹⁾	+	-	o	+	+	-		+	+	-	+	+
Dichloroethylene 1,1	C ₂ H ₂ Cl ₂	TR			40	+ ¹⁾	+	-	o	+	+	-		+	+	-	+	+
Dichloroethylene 1,1	C ₂ H ₂ Cl ₂	TR			60	+ ¹⁾	+	-	o	+	+	-		+	+	-	+	+
Dichloromethane						See Methylene Chloride												
Diesel Fuel		H		AllI	20	+	+	+	o	+	+	+		+	+	-	+	+
Diesel Fuel		H			40	+	+	+	o	+	+	+		+	+	-	+	+
Diesel Fuel		H			60	+	+	+	-	+	+	+		+	+	-	+	+
Diethanolamine	HN(CH ₂ CH ₂ OH) ₂		1,10		20	+	+	-	+	o	+	+		o	-	+	+	+
Diethanolamine	HN(CH ₂ CH ₂ OH) ₂				40	+ ¹⁾	+	-	+ ¹⁾	o	+	o		o	-	+	+	+
Diethanolamine	HN(CH ₂ CH ₂ OH) ₂				60	+ ¹⁾	+	-	+ ¹⁾	-	+	o		o	-	+	+	+
Diethyl Ether						See Ether												
Diethylamine	C ₄ H ₁₁ N	10	0,70	B	20	+ ¹⁾	+	+	+ ¹⁾	o	+	-		-	-	+	+	+
Diethylcellosolve						See Ethyl Glycol												
Diethylene Oxide						See Tetrahydrofurane												
Diglycolic Acid	C ₄ H ₆ O ₆	30			20	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	o	+	+	+
Diglycolic Acid	C ₄ H ₆ O ₆	30			40	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	o	o	+	+
Diglycolic Acid	C ₄ H ₆ O ₆	30			60	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	o	o	+	+
Diglycolic Acid	C ₄ H ₆ O ₆	GL			20	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	o	+	+	+
Diisobutyl Ketone	C ₉ H ₁₈ O	TR			20	+	+	-	+	+	+	+		+	-	+	+	+
Diisobutyl Ketone	C ₉ H ₁₈ O	TR			40	+	+	-	+	+	+	+		-	-	+	+	+
Diisobutyl Ketone	C ₉ H ₁₈ O	TR			60	+	+	-	+	+	+	+		-	-	+	+	+
Diisopropyl Ether						See Isopropyl Ether												
Dimethyl Benzene						See Xylene												
Dimethyl Formamide (DMF)	C ₃ H ₇ NO	TR	0,95		20	+	+	-	+	-	+	+	+	-	o	+	+	+
Dimethyl Formamide (DMF)	C ₃ H ₇ NO	TR			40	+	+	-	+	-	+	+	+	-	-	+	+	+
Dimethyl Formamide (DMF)	C ₃ H ₇ NO	TR			60	+	+	-	+	-	+	+	+	-	-	+	+	+
Dimethyl Phtalate (DMP)	C ₆ H ₄ (COOCH ₃) ₂	TR			20	+	+	-	+	+	+	+		-	-	-	+	+
Dimethyl Phtalate (DMP)	C ₆ H ₄ (COOCH ₃) ₂	TR			40	+	+	-	+	+	+	+		-	-	-	+	+
Dimethyl Phtalate (DMP)	C ₆ H ₄ (COOCH ₃) ₂	TR			60	+	+	-	+	+	+	+		-	-	-	+	+
Dimethylamine	(CH ₃) ₂ NH	TR	0,73		20	+	+	-	+	o	+	+		o	-	o	+	+
Dinonyl Phtalate	C ₂₆ H ₄₂ O ₄	TR			20	+	+	-	+	+	+	+		-	-	-	+	+
Dinonyl Phtalate	C ₂₆ H ₄₂ O ₄	TR			30	+	+	-	+	+	+	+		-	-	-	+	+
Diocetyl Phtalate	C ₂₄ H ₃₈ O ₄	TR			20	+	+	-	o	+	+	+		+	-	-	+	+
Diocetyl Phtalate	C ₂₄ H ₃₈ O ₄	TR			40	+	+	-	o	+	+	+		+	-	-	+	+
Diocetyl Phtalate	C ₂₄ H ₃₈ O ₄	TR			60	+	+	-	o	o	+	+		+	-	-	+	+
Dioxane	C ₄ H ₈ O ₂	TR	1,03	B	20	+	+	+	-	+	+	+		-	o	+	+	+
Dioxane	C ₄ H ₈ O ₂	TR			40	+	+	+	-	o	+	+		-	-	+	+	+
Dioxane	C ₄ H ₈ O ₂	TR			60	+ ¹⁾	+	+	-	-	+	o		-	-	+	+	+
DMF						See Dimethyl Formamide												
DMP						See Dimethyl Phtalate												
Eau de Javel						See Sodium Hypochlorite												
Epichlorhydrine	H ₂ C-O-CH-CH ₂ Cl			All	20	o	+	-	+	+	+	+		-	-	-	+	+
Epichlorhydrine	H ₂ C-O-CH-CH ₂ Cl				40	o	+	-	+	+	+	+		-	-	-	+	+
Epichlorhydrine	H ₂ C-O-CH-CH ₂ Cl				60	o	+	-	+	+	+	+		-	-	-	+	+
Essential Oils					20	+	+	+	+	+	+	+		+	-	-	+	+
Essential Oils					40	+	+	+	+	+	+	+		o	-	-	+	+
Essential Oils					60	+	+	+	+	+	+	+		-	-	-	+	+

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Ethanal	See Acetaldehyde																	
Ethane Dicarboxylic Acid	C ₄ H ₆ O ₄	50	1,06		20	+	+	-	+	+	+	+		+	+	+	+	+
Ethane Dicarboxylic Acid	C ₄ H ₆ O ₄	50			40	+	+	-	+	+	+	+		+	+	+	+	+
Ethane Dicarboxylic Acid	C ₄ H ₆ O ₄	50			60	+	+	-	+	+	+	+		+	+	+	+	+
Ethanol	CH ₃ -CH ₂ -OH	TR	0,79	B	20	+	+	+	+	+	+	+	+	+	+	+	+	+
Ethanol	CH ₃ -CH ₂ -OH	TR			40	+	+	+	+	+	+	+	+	o	+	+	+	+
Ethanol	CH ₃ -CH ₂ -OH	TR			60	+	+	+	+	+	+	+	+	o	+	+	+	+
Ether	(C ₂ H ₅) ₂ O	TR	0,71	AI	20	+	+	+	-	+	+	+		o	o	o	+	+
Ethyl Acetate	H ₃ C-COOC ₂ H ₅	TR	0,90	AI	20	+	+	+	o	o	+	+	+	-	-	o	+	+
Ethyl Acetate	H ₃ C-COOC ₂ H ₅	TR			40	+	+	+	-	o	+	+	+	-	-	o	+	+
Ethyl Acetate	H ₃ C-COOC ₂ H ₅	TR			60	+	+	+	-	o	+	+	+	-	-	-	+	+
Ethyl Alcohol	See Ethanol																	
Ethyl Benzene	C ₆ H ₅ -C ₂ H ₅	TR	0,87	All	20	+ ¹⁾	+	+	o	+	+	-		o	-	-	+	+
Ethyl Benzene	C ₆ H ₅ -C ₂ H ₅	TR			40	+ ¹⁾	+	+	-	+	+	-		-	-	-	+	+
Ethyl Benzene	C ₆ H ₅ -C ₂ H ₅	TR			60	+ ¹⁾	+	+	-	+	+	-		-	-	-	+	+
Ethyl Chloracetate	ClH ₂ C-CO-OC ₂ H ₅			All	20	o	+	-	+	o	+	+		-	-	+	+	+
Ethyl Chloracetate	ClH ₂ C-CO-OC ₂ H ₅				40	o	+	-	+	o	+	+		-	-	+	+	+
Ethyl Chloracetate	ClH ₂ C-CO-OC ₂ H ₅				60	o	+	-	+	o	+	+		-	-	+	+	+
Ethyl Chloride	See Chloroethane																	
Ethyl Dichloride	H ₃ C-CHCl ₂		1,20	AI	20	+	+	+	o	+	+	+		+	o	o	+	+
Ethyl Dichloride	H ₃ C-CHCl ₂				40	+	+	+	o	+	+	+		+	-	o	+	+
Ethyl Dichloride	H ₃ C-CHCl ₂				60	+	+	+	-	+	+	+		o	-	-	+	+
Ethyl Ether	See Ether																	
Ethyl Fluid	See Lead Tetraethyl																	
Ethyl Glycol	C ₂ H ₅ -O-CH ₂ -HC ₂ OH	TR	0,93	All	20	+	+	-	-	+	+	+		+	+	-	+	+
Ethyl Glycol	C ₂ H ₅ -O-CH ₂ -HC ₂ OH	TR			40	+	+	-	-	+	+	+		+	+	-	+	+
Ethyl Glycol	C ₂ H ₅ -O-CH ₂ -HC ₂ OH	TR			60	+	+	-	-	+	+	+		+	+	-	+	+
Ethylene Bromide	CH ₂ Br-CH ₂ Br	TR	2,18		20	+ ¹⁾	+	+	+ ¹⁾	o	+	o		+	o	o	+	+
Ethylene Bromide	CH ₂ Br-CH ₂ Br	TR			40	+ ¹⁾	+	+	o	o	+	o		+	-	o	+	+
Ethylene Bromide	CH ₂ Br-CH ₂ Br	TR			60	+ ¹⁾	+	+	-	o	+	o		o	-	-	+	+
Ethylene Chlorhydrine	See Chloroethanol																	
Ethylene Diamine	H ₂ N-CH ₂ -CH ₂ -NH ₂	TR	0,98		20	+	+	+	+	+	+	+	+	o	o	+	+	+
Ethylene Diamine	H ₂ N-CH ₂ -CH ₂ -NH ₂	TR			40	+	+	+	+	+	+	+	+	o	o	+	+	+
Ethylene Diamine	H ₂ N-CH ₂ -CH ₂ -NH ₂	TR			60	+	+	+	+	+	+	+	+	-	-	+	+	+
Ethylene Dicarboxylic Acid	See Maleic Acid																	
Ethylene Glycol	C ₂ H ₆ O ₂	TR	1,11		20	+	+	+	+	+	+	+		+	+	+	+	+
Ethylene Glycol	C ₂ H ₆ O ₂	TR			40	+	+	+	+	+	+	+		+	+	+	+	+
Ethylene Glycol	C ₂ H ₆ O ₂	TR			60	+	+	+	+	+	+	+		+	+	+	+	+
Fatty Acids	C ₁₇ H ₃₃ CO ₂ H	100	0,90		20	+	+	-	o	+	+	+		+	o	-	+	+
Fatty Acids	C ₁₇ H ₃₃ CO ₂ H	100			40	+	+	-	o	+	+	+		+	-	-	+	+
Fatty Acids	C ₁₇ H ₃₃ CO ₂ H	100			60	+	+	-	o	+	+	+		+	-	-	+	+
Ferric Sulphate	Fe ₂ (SO ₄) ₃	50	1,61		20	+	+	-	+	+	+	+		+	+	+	+	+
Ferric Sulphate	Fe ₂ (SO ₄) ₃	50			40	+	+	-	+	+	+	+		+	+	+	+	+
Ferric Sulphate	Fe ₂ (SO ₄) ₃	50			60	+	+	-	+	+	+	+		+	+	+	+	+
Ferrichloride	FeCl ₃ +H ₂ O	50	1,55		20	-	+	-	+	+	+	+		+	+	+	+	+
Ferrichloride	FeCl ₃ +H ₂ O	50			40	-	o	-	+	+	+	+		+	+	+	+	+
Ferrichloride	FeCl ₃ +H ₂ O	50			60	-	-	-	+	+	+	+		+	+	+	+	+
Ferro	See Ferrous Nitrate																	
Ferrochloride	FeCl ₂ +H ₂ O	10	1,09		20	+	+	-	+	+	+	+		+	+	+	+	+
Ferrochloride	FeCl ₂ +H ₂ O	10			40	o	+	-	+	+	+	+		+	+	+	+	+

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 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM	
Ferrochloride	FeCl ₂ +H ₂ O	10			60	o	o	-	+	+	+	+		+	+	+	+	+	
Ferrochloride	FeCl ₂ +H ₂ O	50			20	+	+	-	+	+	+	+		+	+	+	+	+	
Ferrochloride	FeCl ₂ +H ₂ O	50			40	o	+	-	+	+	+	+		+	+	+	+	+	
Ferrochloride	FeCl ₂ +H ₂ O	50			60	o	+	-	+	+	+	+		+	+	+	+	+	
Ferrocyanide of Potassium	See Potassium Ferrocyanide																		
Ferro-Gallic-Inc	See Ink																		
Ferrosulphate	FeSO ₄	20	1,21		20	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+	
Ferrosulphate	FeSO ₄	20			40	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+	
Ferrosulphate	FeSO ₄	20			60	+ ¹⁾	+	+	+ ¹⁾	+	+	-		+	+	+	+	+	
Ferrous Nitrate	Fe(NO ₃) ₂	TR			20	+	+	-	+	+	+	+		+	+	+	+	+	
Ferrous Nitrate	Fe(NO ₃) ₂	TR			40	+	+	-	+	+	+	+		+	+	+	+	+	
Ferrous Nitrate	Fe(NO ₃) ₂	TR			60	+	+	-	+	+	+	+		+	+	+	+	+	
Finger Nail Polish Remover	See Acetone																		
Flourammon	See Ammonium Fluoride																		
Formaldehyde	CH ₂ O+H ₂ O	10			20	+	+	-	+	+	+	+		+	+	+	+	+	
Formaldehyde	CH ₂ O+H ₂ O	10			40	+	+	-	+	+	+	+		+	o	+	+	+	
Formaldehyde	CH ₂ O+H ₂ O	10			60	+	+	-	+	+	+	+		+	-	+	+	+	
Formaldehyde	CH ₂ O+H ₂ O	35	1,10	All	20	+	+	-	+	+	+	+		+	-	+	+	+	
Formaldehyde	CH ₂ O+H ₂ O	40		All	20	+	+	-	+	+	+	+		+	o	+	+	+	
Formalin	See Formaldehyde																		
Formamide	HCONH ₂	100			20	+	+	+	+	+	+	+		o	+	+	+	+	
Formamide	HCONH ₂	100			40	+	+	+	+	+	+	+		-	o	+	+	+	
Formamide	HCONH ₂	100			60	+	+	+	+	+	+	+		-	-	+	+	+	
Formic Acid	HCOOH	50			20	+	+	-	+	+	+	+	+	+	-	+	+	+	
Formic Acid	HCOOH	50			40	+	+	-	o	+	+	+	+	+	-	o	+	+	
Formic Acid	HCOOH	50			60	o	+	-	-	+	+	+	+	o	-	o	+	+	
Formic Acid	HCOOH	85	1,22	All	20	+	+	-	+	+	+	+	+	-	-	+	+	+	
Formic Acid	HCOOH	85		All	40	o	+	-	o	+	+	+	+	-	-	+	+	+	
Formic Acid	HCOOH	85		All	60	o	+	-	-	+	+	+	+	-	-	+	+	+	
Freon 12	See Dichlorodifluorine-Methane																		
Fruit Juice		H			20	+	+	o	+	+	+	+		+	+	+	+	+	
Fruit Juice		H			40	+	+	o	+	+	+	+		+	+	+	+	+	
Fruit Juice		H			60	+	+	o	+	+	+	+		+	+	+	+	+	
Fuel Oil		H		All	20	+	+	+	+	+	+	+		+	+	+	+	+	
Fuel Oil		H			40	+	+	+	o	+	+	+		+	+	o	+	+	
Fuel Oil		H			60	+	+	+	o	+	+	+		+	+	-	+	+	
Furfuryl Alcohol	C ₅ H ₆ O ₂	TR	1,13	All	20	+	+	+	+	+	+	+		o	-	+	+	+	
Furfuryl Alcohol	C ₅ H ₆ O ₂	TR			40	+	+	+	o	+	+	+		-	-	+	+	+	
Furfuryl Alcohol	C ₅ H ₆ O ₂	TR			60	+	+	+	o	o	+	+		-	-	+	+	+	
Gallic Acid	C ₆ H ₂ (OH) ₃ CO ₂ H	50			20	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	+	+	+	+	
Gallotannic Acid	See Tannic Acid																		
Glacial Acetic Acid	See Acetic Acid 100 %																		
Glauber's Salt	See Sodium Sulphate																		
Gluconic Acid	C ₆ H ₁₂ O ₇				20	+	+	-	+	+	+	+		+	+	+	+	+	
Gluconic Acid	C ₆ H ₁₂ O ₇				40	+	+	-	+	+	+	+		+	+	+	+	+	
Gluconic Acid	C ₆ H ₁₂ O ₇				60	+	+	-	+	+	+	+		+	o	+	+	+	
Glucose	See Glucose solution																		
Glucose Solution	C ₆ H ₁₂ O ₆	GL	1,13		20	+	+	+	+	+	+	+		+	+	+	+	+	
Glucose Solution	C ₆ H ₁₂ O ₆	GL			40	+	+	+	+	+	+	+		+	+	+	+	+	
Glucose Solution	C ₆ H ₁₂ O ₆	GL			60	+	+	+	+	+	+	+		+	+	+	+	+	

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM	
Glycerine	C ₃ H ₈ O ₃	TR	1,26		20	+	+	+	+	+	+	+		+	o	+	+	+	
Glycerine	C ₃ H ₈ O ₃	TR			40	+	+	+	+	+	+	+		+	o	+	+	+	
Glycerine	C ₃ H ₈ O ₃	TR			60	+	+	+	+	+	+	+		+	o	+	+	+	
Glycol	See Ethylene Glycol																		
Glycolic Acid	C ₂ H ₄ O ₃	37			20	+	+	-	+	+	+	+		+	+	+	+	+	
Glycolic Acid	C ₂ H ₄ O ₃	70			20	+	+	-	+	+	+	+		+	-	+	+	+	
Glycolic Acid	C ₂ H ₄ O ₃	70			40	+	+	-	o	o	+	+		o	-	o	+	+	
Glycolic Acid	C ₂ H ₄ O ₃	70			60	+	+	-	-	o	+	+		o	-	-	+	+	
Glucose	See Glycerine																		
Heptane	C ₇ H ₁₆	TR	0,68	Al	20	+	+	+	+	+	+	+	+	+	+	-	+	+	
Heptane	C ₇ H ₁₆	TR			40	+	+	+	+	+	+	+	+	+	+	-	+	+	
Heptane	C ₇ H ₁₆	TR			60	+	+	+	o	+	+	+	+	+	+	-	+	+	
Hexahydrobenzene	See Cyclohexane																		
Hexalin	See Cyclohexanol																		
Hexamethylenetetramine	(CH ₂) ₆ N ₄	10			20	+	+	+	-	+	+	+		o	-	-	+	+	
Hexamethylenetetramine	(CH ₂) ₆ N ₄	10			40	+	+	+	-	+	+	+		-	-	-	+	+	
Hexamethylenetetramine	(CH ₂) ₆ N ₄	10			60	+	+	+	-	o	+	+		-	-	-	+	+	
Hexamine	See Hexamethylenetetramine																		
Hexane	C ₆ H ₁₄	TR		Al	20	+	+	+	+	+	+	+	+	+	+	-	+	+	
Hexane	C ₆ H ₁₄	TR			40	+	+	+	+	+	+	+	+	+	+	-	+	+	
Hexane	C ₆ H ₁₄	TR			60	+	+	+	o	+	+	+	+	+	+	-	+	+	
Hexanedioic Acid	See Adipic Acid																		
Hexanol	C ₆ H ₁₃ OH		0,82	Alll	20	+	+	-	+	+	+	+		+	-	+	+	+	
Hexylalcohol	See Hexanol																		
Hydrazine	H ₂ N-NH ₂	TR	1,08	B	20	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	+	+	+	+	
Hydrazine	H ₂ N-NH ₂	TR			40	o	+	-	o	+	+	-		+	o	o	+	+	
Hydrazine	H ₂ N-NH ₂	TR			60	-	o	-	-	+	+	-		o	-	-	+	+	
Hydriodic Acid	HJ	TR			20	o	o	-	+ ¹⁾	+	+	-		+	+	+	+	+	
Hydriodic Acid	HJ	TR			40	o	o	-	+ ¹⁾	+	+	-		+	o	+	+	+	
Hydriodic Acid	HJ	TR			60	-	o	-	+ ¹⁾	+	+	-		+	o	+	+	+	
Hydrobromic Acid	HBr + H ₂ O	10	1,07		20	-	o	-	+ ¹⁾	+	+	o		+	-	+	+	+	
Hydrobromic Acid	HBr + H ₂ O	10			40	-	o	-	+ ¹⁾	+	+	o		+	-	+	+	+	
Hydrobromic Acid	HBr + H ₂ O	10			60	-	-	-	+ ¹⁾	+	+	o		+	-	o	+	+	
Hydrobromic Acid	HBr + H ₂ O	48	1,44		20	-	o	-	+ ¹⁾	+	+	o		+	o	+	+	+	
Hydrobromic Acid	HBr + H ₂ O	48			40	-	o	-	+ ¹⁾	+	+	o		+	-	+	+	+	
Hydrobromic Acid	HBr + H ₂ O	48			60	-	-	-	+ ¹⁾	+	+	o		+	-	o	+	+	
Hydrochloric Acid	HCl	10	1,05		20	-	+	-	+	+	+	+	+	+	+	+	+	+	
Hydrochloric Acid	HCl	10			40	-	o	-	+	+	+	+	+	+	o	+	+	+	
Hydrochloric Acid	HCl	10			60	-	o	-	+	+	+	+	+	+	-	+	+	+	
Hydrochloric Acid	HCl	30	1,15		20	-	+	-	+	+	+	+	+	+	-	+	+	+	
Hydrochloric Acid	HCl	30			40	-	o	-	+	+	+	+	+	+	-	o	+	+	
Hydrochloric Acid	HCl	30			60	-	o	-	+	+	+	+	+	o	-	o	+	+	
Hydrochloric Acid	HCl	conc.	1,20		20	-	+	-	+	+	+	+	+	+	-	+	+	+	
Hydrochloric Acid	HCl	conc.			40	-	o	-	+	+	+	+	+	+	-	o	+	+	
Hydrochloric Acid	HCl	conc.			60	-	o	-	o	+	+	o	o	o	-	o	+	+	
Hydrocyanic Acid	HCN	TR	0,69		20	+	+	-	+	+	+	+		+	o	+	+	+	
Hydrocyanic Acid	HCN	GL			20	+	+	-	+	+	+	+		o	-	o	+	+	
Hydrocyanic Acid	HCN	GL			40	+ ¹⁾	+	-	+ ¹⁾	+	+	o		o	-	o	+	+	
Hydrocyanic Acid	HCN	GL			60	o	+	-	+ ¹⁾	+	+	o		o	-	o	+	+	
Hydrofluoric Acid	HF	40	1,06		20	-	o	-	+ ¹⁾	+	+	-	-	+	-	o	+	+	

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
						-	o	-	+	+	+	-	-	+	-	-	+	+
Hydrofluoric Acid	HF	40			40	-	o	-	+	+	+	-	-	+	-	-	+	+
Hydrofluoric Acid	HF	40			60	-	o	-	o	+	+	-	-	o	-	-	+	+
Hydrofluoric Acid	HF	60			20	-	o	-	+	+	+	-	-	+	-	o	+	+
Hydrofluoric Acid	HF	70	1,23		20	-	o	-	o	+	+	-	-	o	-	o	+	+
Hydrofluoric Acid	HF	70			40	-	o	-	o	+	+	-	-	o	-	-	+	+
Hydrofluoric Acid	HF	70			60	-	o	-	o	o	+	-	-	o	-	-	+	+
Hydrofluosilic Acid	H ₂ SiF ₆	32	1,17		20	-	+	-	+	+	+	-		+	o	+	+	+
Hydrofluosilic Acid	H ₂ SiF ₆	32			40	-	o	-	+	+	+	-		+	-	o	+	+
Hydrofluosilic Acid	H ₂ SiF ₆	32			60	-	o	-	+	+	+	-		+	-	o	+	+
Hydrogen Fluoride						See Hydrofluoric Acid												
Hydrogen Peroxide	H ₂ O ₂	3	1,01		20	+	+	+	+	+	+	+		+	o	+	+	+
Hydrogen Peroxide	H ₂ O ₂	3			40	+	+	+	+	+	+	+		o	-	+	+	+
Hydrogen Peroxide	H ₂ O ₂	3			60	+	+	+	+	+	+	+		o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	10	1,04		20	+	+	+	+	+	+	+		+	o	+	+	+
Hydrogen Peroxide	H ₂ O ₂	10			40	+	+	+	+	+	+	+		o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	10			60	+	+	+	+	+	+	+		o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	20	1,07		20	+	+	+	+	+	+	o		+	o	+	+	+
Hydrogen Peroxide	H ₂ O ₂	20			40	+	+	+	+	+	+	o		o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	20			60	+	+	+	o	+	+	o		o	-	-	+	+
Hydrogen Peroxide	H ₂ O ₂	30	1,11		20	+	+	+	+	+	+	o		+	-	+	+	+
Hydrogen Peroxide	H ₂ O ₂	30			40	+	+	+	+	+	+	o		o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	30			60	+	+	+	o	+	+	o		o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	90	1,42		20	+	+	+	-	+	+	-		+	-	+	+	+
Hydrogen Peroxide	H ₂ O ₂	90			40	+	+	+	-	o	+	-		o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	90			60	+	+	+	-	o	+	-		o	-	o	+	+
Hydroxy Acetic Acid						See Glycolic Acid												
Hydroxybenzene						See Phenol												
Hydroxysuccinic Acid	HOOC-CH ₂ -CHOH-COOH	50			20	+	+	-	+	+	+	o		+	+	+	+	+
Hydroxysuccinic Acid	HOOC-CH ₂ -CHOH-COOH	50			40	+	+	-	+	+	+	o		+	+	+	+	+
Hydroxysuccinic Acid	HOOC-CH ₂ -CHOH-COOH	50			60	+	+	-	+	+	+	o		+	+	+	+	+
Ink		H	1,00		20	+	+	+	+	+	+	+		+	+	+	+	+
Iodine Preparations		H			20	o	+	o	+	+	+	+		+	+	+	+	o
Iodine Preparations		H			40	o	+	o	+	+	+	+		+	+	+	+	o
Iodine Preparations		H			60	o	+	o	+	+	+	+		+	+	+	+	o
Iodoform						See Triiodine Methane												
Iron Vitriol						See Ferrosulphate												
Isobutanol						See Isobutyl Alcohol												
Isobutyl Alcohol	C ₄ H ₁₀ O	100	0,81	All	20	+	+	+	+	+	+	+		+	-	+	+	+
Isobutyl Alcohol	C ₄ H ₁₀ O	100			40	+	+	+	+	+	+	+		+	-	+	+	+
Isobutyl Alcohol	C ₄ H ₁₀ O	100			60	+	+	+	+	+	+	+		+	-	+	+	+
Isocyanate					20	+	+	+	-	-	+	o		+	+	-	+	+
Isooctane	C ₈ H ₁₈	TR		AI	20	+	+	+	+	+	+	+	+	+	+	+	+	+
Isooctanol	C ₄ H ₉ -CH(C ₂ H ₅)	TR	0,83	AllI	20	+	+	+	+	+	+	+		+	o	+	+	+
Isopropanol						See Propanol												
Isopropyl Acetate	C ₅ H ₁₀ O ₂		0,87	AI	20	+	+	o	o	+	+	o		-	+	+	+	+
Isopropyl Ether	C ₆ H ₁₄ O	TR	0,73	AI	20	+	+	o	o	+	+	-		-	-	-	+	+
Isopropyl Ether	C ₆ H ₁₄ O	TR			40	+	+	o	o	o	+	-		-	-	-	+	+
Isopropyl Ether	C ₆ H ₁₄ O	TR			60	+	+	o	o	o	+	-		-	-	-	+	+
Kerosene						See Naphtha												
Kerosine						See Naphtha												

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Lactic Acid	C ₃ H ₆ O ₃	10			20	+	+	-	+	+	+	+		+	o	+	+	+
Lactic Acid	C ₃ H ₆ O ₃	10			40	+	+	-	+	+	+	+		+	-	+	+	+
Lactic Acid	C ₃ H ₆ O ₃	10			60	+	+	-	+	+	+	+		+	-	+	+	+
Lactic Acid	C ₃ H ₆ O ₃	90			20	+	+	-	+	+	+	+		+	-	+	+	+
Lactic Acid	C ₃ H ₆ O ₃	90			40	o	+	-	+	o	+	+		+	-	+	+	+
Lactic Acid	C ₃ H ₆ O ₃	90			60	o	+	-	+	o	+	+		+	-	o	+	+
Lanolin		TR			20	+	+	+	o	+	+	+		+	+	o	+	+
Lanolin		TR			40	+	+	+	-	+	+	+		+	+	-	+	+
Lanolin		TR			60	+	+	+	-	+	+	+		+	o	-	+	+
Lauric Acid	C ₁₂ H ₂₄ O ₂	TR			20	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	-	-	+	+
Lauric Acid	C ₁₂ H ₂₄ O ₂	TR			40	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	-	-	+	+
Lauric Acid	C ₁₂ H ₂₄ O ₂	TR			60	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	-	-	+	+
Lead Acetate	C ₄ H ₆ O ₄ Pb	10			20	+	+	-	+	+	+	+		+	+	+	+	+
Lead Acetate	C ₄ H ₆ O ₄ Pb	10			40	+	+	-	+	+	+	+		+	+	+	+	+
Lead Acetate	C ₄ H ₆ O ₄ Pb	10			60	+	+	-	+	+	+	+		+	+	+	+	+
Lead Acetate	C ₄ H ₆ O ₄ Pb	GL			20	+	+	-	+	+	+	+		+	+	+	+	+
Lead Acetate	C ₄ H ₆ O ₄ Pb	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Lead Acetate	C ₄ H ₆ O ₄ Pb	GL			60	+	+	-	+	+	+	+		+	+	+	+	+
Lead Nitrate	Pb(NO ₃) ₂	50			20	+	+	+	+	+	+	+		+	+	+	+	+
Lead Sugar						See Lead Acetate												
Lead Tetraethyl	Pb(C ₂ H ₅) ₄	TR	1,66	All	20	+	+	+	+	+	+	+		+	+	o	+	+
Linseed Oil		TR			20	+	+	+	+	+	+	+		+	+	+	+	+
Linseed Oil		TR			40	+	+	+	+	+	+	+		+	+	o	+	+
Linseed Oil		TR			60	+	+	+	o	+	+	+		+	+	-	+	+
Lithium Chloride	LiCl	45	1,30		20	o	+	-	+	+	+	+		+	+	+	+	+
Lithium Chloride	LiCl	45			40	o	+	-	+	+	+	+		+	+	+	+	+
Lithium Chloride	LiCl	45			60	-	o	-	+	+	+	+		+	+	+	+	+
Lithium Sulphate	LiSO ₄	25	1,23		20	+	+	+	+	+	+	+		+	+	+	+	+
Lithium Sulphate	LiSO ₄	25			40	+	+	+	+	+	+	+		+	+	+	+	+
Lithium Sulphate	LiSO ₄	25			60	+	+	+	+	+	+	+		+	+	+	+	+
Lunar Caustic						See Silver Nitrate												
Magnesium Chloride	MgCl ₂	10			20	o	+	-	+	+	+	+		+	+	+	+	+
Magnesium Chloride	MgCl ₂	10			40	o	+	-	+	+	+	+		+	+	+	+	+
Magnesium Chloride	MgCl ₂	10			60	o	+	-	+	+	+	+		+	+	+	+	+
Magnesium Chloride	MgCl ₂	GL			20	o	+	-	+	+	+	+		+	+	+	+	+
Magnesium Chloride	MgCl ₂	GL			40	o	+	-	+	+	+	+		+	+	+	+	+
Magnesium Chloride	MgCl ₂	GL			60	o	+	-	+	+	+	+		+	+	+	+	+
Magnesium Nitrate	Mg(NO ₃) ₂	25	1,21		20	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Nitrate	Mg(NO ₃) ₂	25			40	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Nitrate	Mg(NO ₃) ₂	25			60	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Sulphate	MgSO ₄	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Sulphate	MgSO ₄	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Sulphate	MgSO ₄	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Sulphate	MgSO ₄	GL	1,28		20	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Sulphate	MgSO ₄	GL			40	+	+	+	+	+	+	+		+	+	+	+	+
Magnesium Sulphate	MgSO ₄	GL			60	+	+	+	+	+	+	+		+	+	+	+	+
Maleic Acid	C ₄ H ₄ O ₄	35			20	+	+	-	+	+	+	+		+	-	+	+	+
Maleic Acid	C ₄ H ₄ O ₄	35			40	+	+	-	+	+	+	+		+	-	+	+	+
Maleic Acid	C ₄ H ₄ O ₄	GL			20	+	+	-	+	+	+	+		+	-	o	+	+
Maleic Acid	C ₄ H ₄ O ₄	GL			40	+	+	-	+	+	+	+		+	-	-	+	+

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 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Maleic Acid	C ₄ H ₄ O ₄	GL			60	+	+	-	+	+	+	+		+	-	-	+	+
Malic Acid	See Hydrosuccinic Acid																	
Manganous Chloride	MnCl ₂	20	1,19		20	o	+	-	+	+	+	+		+	+	+	+	+
Manganous Chloride	MnCl ₂	20			40	o	+	-	+	+	+	+		+	+	+	+	+
Manganous Chloride	MnCl ₂	20			60	-	o	-	+	+	+	+		+	o	+	+	+
Mercury Cyanide	Hg(CN) ₂	TR			20	+	+	-	+	+	+	+		+	+	+	+	+
Mercury Cyanide	Hg(CN) ₂	TR			40	+	+	-	+	+	+	+		+	+	+	+	+
Mercury Cyanide	Hg(CN) ₂	TR			60	+	+	-	+	+	+	+		+	o	+	+	+
Mercury Nitrate	Hg(NO ₃) ₂	GL			20	+	+	-	+	+	+	+		+	o	+	+	+
Mercury Nitrate	Hg(NO ₃) ₂	GL			40	+	+	-	+	+	+	+		+	o	+	+	+
Mercury Nitrate	Hg(NO ₃) ₂	GL			60	+	+	-	+	+	+	+		+	-	+	+	+
Methanol	CH ₃ OH	TR		B	20	+	+	+	+	+	+	+	+	o	o	+	+	+
Methanol	CH ₃ OH	TR			40	+	+	+	+	+	+	+	+	o	o	+	+	+
Methanol	CH ₃ OH	TR			60	+	+	o	+	+	+	+	+	o	-	o	+	+
Methyl Alcohol	See Methanol																	
Methyl Benzene	See Taluene																	
Methyl Cellosolve	See Methyl Glycol																	
Methyl Cyanide	See Acetonitrile																	
Methyl Ester	See Acetic Methyl Ester																	
Methyl Ethyl Ketone (MEK)	See Butanone																	
Methyl Glycol	(CH ₂) ₂ OHOCH ₃		0,98		20	+	+	+	+	+	+	+		+	+	+	+	+
Methyl Glycol	(CH ₂) ₂ OHOCH ₃				40	+	+	+	+	+	+	+		+	+	+	+	+
Methyl Glycol	(CH ₂) ₂ OHOCH ₃				60	+	+	+	+	+	+	+		+	+	+	+	+
Methyl Isobutyl Ketone (MIBK)	C ₆ H ₁₁ O			AI	20	+	+	-	-	+	+	+	+	o	o	o	+	+
Methyl Pentanon	See Methyl Isobutyl Ketone (MIBK)																	
Methyl Sulphuric Acid	H ₂ SO ₄ -CH ₂	50			20	o	o	-	o	+	+	-		o	-	+	+	+
Methyl Sulphuric Acid	H ₂ SO ₄ -CH ₂	50			40	-	o	-	o	+	+	-		o	-	+	+	+
Methyl Sulphuric Acid	H ₂ SO ₄ -CH ₂	50			60	-	-	-	-	+	+	-		-	-	o	+	+
Methyl Sulphuric Acid	H ₂ SO ₄ -CH ₂	TR			20	o	o	-	-	+	+	-		o	-	+	+	+
Methyl Sulphuric Acid	H ₂ SO ₄ -CH ₂	TR			40	-	o	-	-	+	+	-		o	-	+	+	+
Methyl Sulphuric Acid	H ₂ SO ₄ -CH ₂	TR			60	-	o	-	-	+	+	-		-	-	o	+	+
Methylene Chloride	CH ₂ Cl ₂		1,33		20	+	+	-	o	o	¹⁾	+	+	o	-	o	+	+
Methylene Chloride	CH ₂ Cl ₂				40	+	+	-	o	o	¹⁾	+	+	o	-	-	+	+
Milk					20	+	+	+	+	+	+	+		+	+	+	+	+
Milk of Lime	See Calcium Hydroxyde																	
Mineral Oils					20	+	+	+	+	+	+	+		+	+	-	+	+
Mineral Oils					40	+	+	+	+	+	+	+		+	+	-	+	+
Mineral Oils					60	+	+	+	o	+	+	+		+	+	-	+	+
Mineral Water					20	+	+	+	+	+	+	+		+	+	+	+	+
Mineral Water					40	+	+	+	+	+	+	+		+	+	+	+	+
Mineral Water					60	+	+	+	+	+	+	+		+	+	+	+	+
Mirbane	See Nitrobenzene																	
Monochloroacetic Acid	See Chloroacetic Acid																	
Muriatic Acid	See Hydrochloric Acid																	
Naphta		TR	0,81	All	20	¹⁾	+	+	¹⁾	+	+	o		+	+	o	+	+
Naphta		TR			40	¹⁾	+	+	¹⁾	+	+	o		+	+	-	+	+
Naphta		TR			60	¹⁾	+	+	¹⁾	+	+	o		+	+	-	+	+
Naphtenic Acid	See Fatty Acids																	
Nickel Chloride	NiCl ₂	20	1,22		20	o	+	-	+	+	+	+		+	+	+	+	+
Nickel Chloride	NiCl ₂	20			40	o	+	-	+	+	+	+		+	+	+	+	+

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Nickel Chloride	NiCl ₂	20			60	o	+	-	+	+	+	+		+	o	+	+	+
Nickel Nitrate	Ni(NO ₃) ₂	35	1,38		20	+	+	-	+	+	+	+		+	+	+	+	+
Nickel Nitrate	Ni(NO ₃) ₂	35			40	+	+	-	+	+	+	+		+	+	+	+	+
Nickel Nitrate	Ni(NO ₃) ₂	35			60	+	+	-	+	+	+	+		+	o	+	+	+
Nickel Sulphate	NiSO ₄	10	1,21		20	+	+	-	+	+	+	+		+	+	+	+	+
Nickel Sulphate	NiSO ₄	10			40	+	+	-	+	+	+	+		+	+	+	+	+
Nickel Sulphate	NiSO ₄	10			60	+	+	-	+	+	+	+		+	+	+	+	+
Nicotine	C ₁₀ H ₁₄ N ₂				20	+	+	-	-	-	+	+		+	o	+	+	+
Nitric Acid	HNO ₃	10	1,05		20	+ ¹⁾	+	-	+ ¹⁾	+	+	o	o	+	-	+	+	+
Nitric Acid	HNO ₃	10			40	+ ¹⁾	+	-	o	+	+	o	o	+	-	+	+	+
Nitric Acid	HNO ₃	10			60	+ ¹⁾	+	-	o	+	+	o	o	+	-	o	+	+
Nitric Acid	HNO ₃	30	1,18		20	+ ¹⁾	+	-	o	+	+	-	-	+	-	+	+	+
Nitric Acid	HNO ₃	30			40	+ ¹⁾	+	-	o	+	+	-	-	+	-	+	+	+
Nitric Acid	HNO ₃	30			60	o	+	-	-	+	+	-	-	+	-	o	+	+
Nitric Acid	HNO ₃	50	1,31		20	+ ¹⁾	+	-	o	+	+	-	-	+	-	-	+	+
Nitric Acid	HNO ₃	50			40	o	+	-	-	+	+	-	-	o	-	-	+	+
Nitric Acid	HNO ₃	50			60	o	o	-	-	+	+	-	-	o	-	-	+	+
Nitric Acid	HNO ₃	65	1,41		20	+ ¹⁾	+	-	-	+	+	-	-	o	-	-	+	+
Nitric Acid	HNO ₃	65			40	o	+	-	-	+	+	-	-	o	-	-	+	+
Nitric Acid	HNO ₃	65			60	o	o	-	-	+	+	-	-	o	-	-	+	+
Nitrobenzene	C ₆ H ₅ NO ₂	TR	1,21	AllI	20	+	+	+	+	+	+	+	+	o	o	o	+	+
Nitrobenzene	C ₆ H ₅ NO ₂	TR			40	+	+	+	o	+	+	+	+	o	o	-	+	+
Nitrobenzene	C ₆ H ₅ NO ₂	TR			60	+	+	+	o	+	+	+	+	o	-	-	+	+
Nitrotoluene	C ₆ H ₄ CH ₃ NO ₂	TR			20	+	+	+	+	+	+	+		o	o	o	+	+
Nitrotoluene	C ₆ H ₄ CH ₃ NO ₂	TR			40	+	+	+	+	+	+	+		o	o	-	+	+
Nitrotoluene	C ₆ H ₄ CH ₃ NO ₂	TR			60	+	+	+	o	+	+	+		o	o	-	+	+
Nitrous Acid	HNO ₂				20	o	+	-	o	+	+	+		+	-	o	+	+
Nitrous Acid	HNO ₂				40	o	+	-	o	+	+	+		+	-	o	+	+
Nitrous Acid	HNO ₂				60	o	+	-	-	+	+	+		+	-	-	+	+
Octal						See Dioctyl Phthalate												
Octane	C ₈ H ₁₈	TR		AI	20	+	+	+	+	+	+	+	+	+	+	+	+	+
Oil						See Mineral Oils												
Oleic Acid	C ₁₈ H ₃₄ O ₂	TR	0,90		20	+	+	-	+	+	+	+		+	o	-	+	+
Oleic Acid	C ₁₈ H ₃₄ O ₂	TR			40	+	+	-	+	+	+	+		o	o	-	+	+
Oleic Acid	C ₁₈ H ₃₄ O ₂	TR			60	+	+	-	o	+	+	+		o	-	-	+	+
Oleum	H ₂ SO ₄ +SO ₃				20	+ ¹⁾	+	-	-	-	+	-		+	-	-	+	+
Oxalic Acid	(CO ₂ H) ₂	10			20	+	+	-	+	+	+	+		+	+	+	+	+
Oxalic Acid	(CO ₂ H) ₂	10			40	+	+	-	o	+	+	+		+	+	+	+	+
Oxalic Acid	(CO ₂ H) ₂	10			60	+	+	-	o	+	+	+		+	+	+	+	+
Oxalic Acid	(CO ₂ H) ₂	GL	1,65		20	+ ¹⁾	+	-	+ ¹⁾	+	+	o		+	o	+	+	+
Oxalic Acid	(CO ₂ H) ₂	GL			40	+ ¹⁾	+	-	o	+	+	o		+	o	o	+	+
Oxalic Acid	(CO ₂ H) ₂	GL			60	+ ¹⁾	+	-	o	o	+	o		+	o	o	+	+
Palatinol C						See Dibutyl Phthalate												
Paraffin Oil	CnH _{2n}	TR	0,93		20	+	+	+	+	+	+	+		+	+	-	+	+
Paraffin Oil	CnH _{2n}	TR			40	+	+	+	+	+	+	+		+	o	-	+	+
Paraffin Oil	CnH _{2n}	TR			60	+	+	+	+	+	+	+		+	o	-	+	+
Pectine		10			20	+	+	+	+	+	+	+		+	+	+	+	+
Pentanol, 1-Pentanol						See Amyl Alcohol												
Pentyl Acetate						See Amyl Acetate												
Pentyl Chloride						See Amyl Chloride												

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 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Peracetic Acid		TR			20	+	-	-	-	+	+	-		-	-	-	+	-
Peracetic Acid		TR			40	+	-	-	-	+	+	-		-	-	-	+	-
Peracetic Acid		TR			60	+	-	-	-	+	+	-		-	-	-	+	-
Perchloric Acid	HClO ₄	20			20	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	20			40	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	20			60	+	+	-	+	+	+	+		o	-	o	+	+
Perchloric Acid	HClO ₄	50	1,40		20	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	50			40	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	50			60	+	+	-	o	+	+	+		o	-	o	+	+
Perchloric Acid	HClO ₄	70	1,55		20	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	70			40	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	70			60	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	GL			20	+	+	-	+	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	GL			40	+	+	-	o	+	+	+		+	-	+	+	+
Perchloric Acid	HClO ₄	GL			60	o	+	-	-	+	+	+		+	-	+	+	+
Perchloroethylene	C ₂ Cl ₄	TR			20	+	+	-	-	+	¹⁾	+		+	-	-	+	+
Perchloroethylene	C ₂ Cl ₄	TR			40	+	+	-	-	+	¹⁾	+		+	-	-	+	+
Perchloroethylene	C ₂ Cl ₄	TR			60	o	+	-	-	+	¹⁾	+		+	-	-	+	+
Petrol		H	0,73	Al	20	+	+	+	-	+	+	+	+	+	+	-	+	+
Petrol		H			40	+	+	+	-	+	+	+	+	+	+	-	+	+
Petrol		H			60	+	+	+	-	+	+	+	+	+	+	-	+	+
Petroleum Crude					20	+	+	+	+	+	+	+		+	+	-	+	+
Petroleum Crude					40	+	+	+	+	+	+	+		+	+	-	+	+
Petroleum Crude					60	+	+	+	+	+	+	+		+	+	-	+	+
Petroleum Ether		TR	0,69	Al	20	+	+	+	-	+	+	+		+	+	o	+	+
Petroleum Ether		TR			40	+	+	+	-	+	+	+		+	o	-	+	+
Petroleum Ether		TR			60	+	+	+	-	+	+	+		o	-	-	+	+
Phenol	C ₆ H ₆ O	100			20	+	+	+	+	+	+	+	+	+	+	+	+	+
Phenol	C ₆ H ₆ O	100			40	+	+	+	+	+	+	+	+	+	+	o	+	+
Phenol	C ₆ H ₆ O	100			60	+	+	+	+	+	+	+	+	+	+	o	+	+
Phenol	C ₆ H ₆ O	50			20	+	+	+	+	+	+	+	+	+	+	+	+	+
Phenol	C ₆ H ₆ O	50			40	+	+	+	+	+	+	+	+	+	+	o	+	+
Phenol	C ₆ H ₆ O	50			60	+	+	+	+	+	+	+	+	+	+	o	+	+
Phenol	C ₆ H ₆ O	90			20	+	+	+	+	+	+	+	+	+	+	-	+	+
Phenol	C ₆ H ₆ O	90			40	+	+	+	+	+	+	+	+	o	+	-	+	+
Phenol	C ₆ H ₆ O	90			60	+	+	+	+	+	+	+	+	o	o	-	+	+
Phenyl Chloride	See Chlorobenzene																	
Phosphor Chloride	See Phosphorous Trichloride																	
Phosphoric Acid	H ₃ PO ₄	30	1,18		20	+	+	-	+	+	+	+		+	o	+	+	+
Phosphoric Acid	H ₃ PO ₄	30			40	+	+	-	+	+	+	+		+	o	+	+	+
Phosphoric Acid	H ₃ PO ₄	30			60	+	+	-	+	+	+	+		+	-	+	+	+
Phosphoric Acid	H ₃ PO ₄	50			20	+	+	-	+	+	+	+		+	o	+	+	+
Phosphoric Acid	H ₃ PO ₄	50			40	+	+	-	+	+	+	+		+	o	+	+	+
Phosphoric Acid	H ₃ PO ₄	50			60	o	+	-	+	+	+	+		+	-	+	+	+
Phosphoric Acid	H ₃ PO ₄	85	1,69		20	+	+	-	+	+	+	+		+	-	+	+	+
Phosphoric Acid	H ₃ PO ₄	85			40	+	+	-	+	+	+	+		+	-	+	+	+
Phosphoric Acid	H ₃ PO ₄	85			60	o	+	-	+	+	+	+		o	-	+	+	+
Phosphoric Acid	H ₃ PO ₄	95	1,70		20	-	+	-	+	+	+	o		+	-	o	+	+
Phosphoric Acid	H ₃ PO ₄	95			40	-	+	-	o	+	+	o		+	-	o	+	+
Phosphoric Acid	H ₃ PO ₄	95			60	-	o	-	-	+	+	o		o	-	o	+	+

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 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Phosphorous Trichloride	POCl ₃	TR	1,57		20	+	+	-	+	+	+	+		+	-	+	+	+
Phosphorous Trichloride	POCl ₃	TR			40	o	o	-	o	+	+	+		+	-	+	+	+
Phosphorous Trichloride	POCl ₃	TR			60	-	-	-	o	+	+	+		+	-	+	+	+
Phthalic Acid	C ₆ H ₄ (COOH) ₂ +H ₂ O	50			20	+	+	-	+	+	+	+		+	-	+	+	+
Phthalic Acid	C ₆ H ₄ (COOH) ₂ +H ₂ O	50			40	+	+	-	+	+	+	+		+	-	+	+	+
Phthalic Acid	C ₆ H ₄ (COOH) ₂ +H ₂ O	50			60	+	+	-	+	+	+	+		+	-	+	+	+
Phthalic Acid	C ₆ H ₄ (COOH) ₂ +H ₂ O	GL	1,59		20	+	+	-	+	+	+	+		o	-	+	+	+
Phthalic Acid	C ₆ H ₄ (COOH) ₂ +H ₂ O	GL			40	+	+	-	+	+	+	+		o	-	+	+	+
Phthalic Acid	C ₆ H ₄ (COOH) ₂ +H ₂ O	GL			60	+	+	-	+	+	+	+		-	-	o	+	+
Pine Needle Oil	See Essential Oils																	
Polyhydric Alcohol			1,78		20	+	+	+	-	+	+	+		+	+	+	+	+
Potash	See Potassium Carbonate																	
Potash Bleaching Solution	See Potassium Hypochlorite																	
Potassium Aluminium Sulphate	KAl(SO ₄)·2H ₂ O	50			20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Aluminium Sulphate	KAl(SO ₄)·2H ₂ O	50			40	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Aluminium Sulphate	KAl(SO ₄)·2H ₂ O	50			60	+	+	+	+	+	+	+		+	-	+	+	+
Potassium Bichromate	See Potassium Dichromate																	
Potassium Bromate	KBrO ₃ +H ₂ O	GL			20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Bromate	KBrO ₃ +H ₂ O	GL			40	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Bromate	KBrO ₃ +H ₂ O	GL			60	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Bromide	KBr + H ₂ O	10	1,37		20	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Bromide	KBr + H ₂ O	10			40	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Bromide	KBr + H ₂ O	10			60	o	+	-	+	+	+	+		+	+	+	+	+
Potassium Bromide	KBr + H ₂ O	GL			20	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Bromide	KBr + H ₂ O	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Bromide	KBr + H ₂ O	GL			60	o	+	-	+	+	+	+		+	+	+	+	+
Potassium Carbonate	K ₂ CO ₃	GL			20	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Carbonate	K ₂ CO ₃	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Carbonate	K ₂ CO ₃	GL			60	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Chlorate	KClO ₃	50			20	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Chlorate	KClO ₃	50			40	+	+	-	+	+	+	+		+	o	+	+	+
Potassium Chlorate	KClO ₃	50			60	o	+	-	+	+	+	+		+	-	+	+	+
Potassium Chloride	KCl	10			20	o	+	-	+	+	+	+		+	+	+	+	+
Potassium Chloride	KCl	10			40	o	+	-	+	+	+	+		+	+	+	+	+
Potassium Chloride	KCl	10			60	o	o	-	+	+	+	+		+	+	+	+	+
Potassium Chloride	KCl	GL	1,17		20	o	+	-	+	+	+	+		+	+	+	+	+
Potassium Chloride	KCl	GL			40	o	+	-	+	+	+	+		+	+	+	+	+
Potassium Chloride	KCl	GL			60	o	o	-	+	+	+	+		+	+	+	+	+
Potassium Cyanide	KCN	50			20	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Cyanide	KCN	50			40	+	+	-	+	+	+	+		o	+	+	+	+
Potassium Cyanide	KCN	50			60	+	+	-	+	+	+	+		o	+	+	+	+
Potassium Cyanide	KCN	GL	1,31		20	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Cyanide	KCN	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Cyanide	KCN	GL			60	+	+	-	+	o	+	+		+	+	+	+	+
Potassium Dichromate	K ₂ Cr ₂ O ₇	40			20	+	+	-	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	20	1,11		20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	20			40	+	+	+	+	+	+	+		+	+	+	+	+

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Potassium Ferricyanide	K ₄ Fe(CN) ₆	20			60	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	GL			20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	GL			40	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferricyanide	K ₄ Fe(CN) ₆	GL			60	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	10			20	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	10			40	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	10			60	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	16	1,11		20	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	16			40	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	16			60	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	GL			20	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	GL			40	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Ferrocyanide	K ₃ Fe(CN) ₆	GL			60	+ ¹⁾	+	+	+ ¹⁾	+	+	o		+	+	+	+	+
Potassium Hydroxide	KOH	20	1,19		20	+	+	-	+	+	+	+		-	o	+	+	+
Potassium Hydroxide	KOH	20			40	+	+	-	+	+	+	+		-	o	o	+	+
Potassium Hydroxide	KOH	20			60	+	+	-	+	+	+	+		-	o	o	+	+
Potassium Hydroxide	KOH	30	1,29		20	+	+	-	+	+	+	+		-	o	+	+	+
Potassium Hydroxide	KOH	30			40	+	+	-	+	+	+	+		-	o	o	+	+
Potassium Hydroxide	KOH	30			60	+	+	-	+	+	+	+		-	o	o	+	+
Potassium Hydroxide	KOH	60	1,63		20	+	+	-	+	+	+	+		-	-	+	+	+
Potassium Hydroxide	KOH	60			40	+	+	-	+	+	+	+		-	-	+	+	+
Potassium Hydroxide	KOH	60			60	+	+	-	+	+	+	+		-	-	+	+	+
Potassium Hypochlorite	KClO	15			20	o	+	-	o	+	+	+		+	-	+	+	+
Potassium Hypochlorite	KClO	15			40	o	+	-	o	+	+	+		+	-	o	+	+
Potassium Hypochlorite	KClO	15			60	o	o	-	-	+	+	+		+	-	-	+	+
Potassium Iodide	KJ	50	1,55		20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Iodide	KJ	50			40	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Iodide	KJ	50			60	o	+	+	+	+	+	+		+	o	+	+	+
Potassium Iodide	KJ	GL			20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Iodide	KJ	GL			40	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Iodide	KJ	GL			60	o	+	o	+	+	+	+		+	o	+	+	+
Potassium Nitrate	KNO ₃	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Nitrate	KNO ₃	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Nitrate	KNO ₃	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Nitrate	KNO ₃	24	1,17		20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Nitrate	KNO ₃	24			40	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Nitrate	KNO ₃	24			60	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Oxalate	K ₂ (CO ₂) ₂				20	+	+	-	+	+	+	+		+	-	+	+	+
Potassium Oxalate	K ₂ (CO ₂) ₂				40	+	+	-	+	+	+	+		+	-	+	+	+
Potassium Oxalate	K ₂ (CO ₂) ₂				60	+	+	-	+	+	+	+		+	-	+	+	+
Potassium Permanganate	KMnO ₄	6	1,04		20	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Permanganate	KMnO ₄	6			40	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Permanganate	KMnO ₄	6			60	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Permanganate	KMnO ₄	18			20	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Permanganate	KMnO ₄	18			40	+	+	+	+	+	+	+		+	o	+	+	+
Potassium Sulphate	K ₂ SO ₄	10	1,08		20	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Sulphate	K ₂ SO ₄	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Potassium Sulphate	K ₂ SO ₄	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Propanediol						See Propylene Glycol												
Propanone						See Acetone												

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Propionic Acid	C ₃ H ₆ O ₂	50			20	+	+	-	+	+	+	+		+	-	o	+	+
Propionic Acid	C ₃ H ₆ O ₂	50			40	+	+	-	+	+	+	+		+	-	o	+	+
Propionic Acid	C ₃ H ₆ O ₂	50			60	+	+	-	+	+	+	+		o	-	o	+	+
Propionic Acid	C ₃ H ₆ O ₂	TR	0,99		20	+	+	-	+	+	+	+		+	-	+	+	+
Propionic Acid	C ₃ H ₆ O ₂	TR			40	+	+	-	o	+	+	+		+	-	+	+	+
Propionic Acid	C ₃ H ₆ O ₂	TR			60	+	+	-	o	+	+	+		+	-	o	+	+
Propyl Acetate					See Isopropylacetate													
Propyl Alcohol	C ₃ H ₈ O	TR		B	20	+	+	+	+	+	+ ¹⁾	+	+	+	+	o	+	+
Propyl Alcohol	C ₃ H ₈ O	TR			40	+	+	+	+	+	+ ¹⁾	+	+	+	+	o	+	+
Propyl Alcohol	C ₃ H ₈ O	TR			60	+	+	+	+	+	+ ¹⁾	+	+	+	+	o	+	+
Propylene Aldehyde	C ₄ H ₆ O	TR		AI	20	+	+	+	-	+	+	+		+	+	+	+	+
Propylene Glycol	C ₃ H ₈ O ₂	TR	1,04		20	+	+	+	+	+	+	+		+	+	+	+	+
Propylene Glycol	C ₃ H ₈ O ₂	TR			40	+	+	+	+	+	+	+		+	o	+	+	+
Propylene Glycol	C ₃ H ₈ O ₂	TR			60	+	+	+	+	+	+	+		o	-	+	+	+
Propylene Oxide	C ₃ H ₆ O	TR	0,83	AI	20	+	+	+	+	+	+	+		-	-	-	+	+
Propylene Oxide	C ₃ H ₆ O	TR			40	+	+	+	+	+	+	+		-	-	-	+	+
Prussic Acid					See Hydrocyanic Acid													
Pyranon					See Diacetone Alcohol													
Pyridine	C ₅ H ₅ N	TR	0,99	B	20	+	+	+	o	+	+	+		o	-	+	+	+
Pyridine	C ₅ H ₅ N	TR			40	+	+	+	o	+	+	+		-	-	o	+	+
Pyridine	C ₅ H ₅ N	TR			60	+	+	+	o	o	+	+		-	-	o	+	+
Pyrogallic Acid					See Pyrogallol													
Pyrogallol	C ₆ H ₃ (OH) ₃ -1,2,3	10			20	+	+	+	+	+	+	+		+	o	+	+	+
Pyrogallol	C ₆ H ₃ (OH) ₃ -1,2,3	10			40	+	+	+	+	+	+	+		+	-	+	+	+
Pyrogallol	C ₆ H ₃ (OH) ₃ -1,2,3	10			60	+	+	+	+	+	+	+		+	-	+	+	+
Ricinus Oil		H	0,96		20	+	+	+	+	+	+	+		+	+	+	+	+
Ricinus Oil		H			40	+	+	+	+	+	+	+		+	+	+	+	+
Ricinus Oil		H			60	+	+	+	+	+	+	+		+	+	+	+	+
Salade Oil		H			20	+	+	+	+	+	+	+	+	+	+	+	+	+
Salade Oil		H			40	+	+	+	+	+	+	+	+	+	+	+	o	+
Salade Oil		H			60	+	+	+	o	+	+	+	+	+	+	+	-	+
Salmiac					See Ammonium Chloride													
Salt peter					See Potassium Nitrate													
Sea Water					20	o	+	-	+	+	+	+		+	+	+	+	+
Sea Water					40	o	+	-	+	+	+	+		+	o	+	+	+
Sea Water					60	o	+	-	+	+	+	+		+	o	+	+	+
Sel Volatile					See Ammonium Carbonate													
Silicic Acid	Si(OH) ₄	TR			20	+	+	-	+	+	+	+		+	-	+	+	+
Silicic Acid	Si(OH) ₄	TR			40	+	+	-	+	+	+	+		+	-	+	+	+
Silicic Acid	Si(OH) ₄	TR			60	+	+	-	+	+	+	+		+	-	+	+	+
Silicofluoric Acid					See Hydrofluosilic Acid													
Silicone Oil		TR	1,06		20	+	+	+	+	+	+	+		+	+	o	+	+
Silicone Oil		TR			40	+	+	+	+	+	+	+		+	+	o	+	+
Silicone Oil		TR			60	+	+	+	+	+	+	+		+	+	o	+	+
Silver Nitrate	AgNO ₃	8	1,07		20	+	+	-	+	+	+	+		+	+	+	+	+
Silver Nitrate	AgNO ₃	8			40	+	+	-	+	+	+	+		+	+	+	+	+
Silver Nitrate	AgNO ₃	8			60	+	+	-	+	+	+	+		+	+	+	+	+
Soda					See Sodium Bicarbonate													
Sodium Acetate	CH ₃ COONa	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Acetate	CH ₃ COONa	10			40	+	+	+	+	+	+	+		+	+	+	+	+

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 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Sodium Acetate	CH ₃ COONa	10			60	+	+	+	+	+	+	+		+	o	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	10			60	+	+	+	+	+	+	+		+	o	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	36			20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	36			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	36			60	+	+	+	+	+	+	+		+	o	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	GL			20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Benzoate	C ₇ H ₅ NaO ₂	GL			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Bicarbonate	NaHCO ₃	10	1,07		20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Bicarbonate	NaHCO ₃	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Bicarbonate	NaHCO ₃	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Bichromate	Na ₂ Cr ₂ O ₇	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Bichromate	Na ₂ Cr ₂ O ₇	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Bichromate	Na ₂ Cr ₂ O ₇	10			60	+	+	+	+	+	+	+		+	o	+	+	+
Sodium Chlorate	NaClO ₃	25	1,23		20	+	+	-	+	+	+	+		+	+	+	+	+
Sodium Chlorate	NaClO ₃	25			40	+	+	-	+	+	+	+		+	o	+	+	+
Sodium Chlorate	NaClO ₃	25			60	o	+	-	+	+	+	+		+	-	+	+	+
Sodium Chloride	NaCl	20			20	o	+	+	+	+	+	+		+	+	+	+	+
Sodium Chloride	NaCl	20			40	o	+	+	+	+	+	+		+	+	+	+	+
Sodium Chloride	NaCl	20			60	o	o	o	o	+	+	+		+	o	+	+	+
Sodium Chlorite	NaClO ₂	5			20	o	+	-	+	+	+	+		+	+	+	+	+
Sodium Chlorite	NaClO ₂	5			40	-	o	-	+	+	+	+		+	+	+	+	+
Sodium Chlorite	NaClO ₂	5			60	-	o	-	+	+	+	+		+	o	+	+	+
Sodium Dichromate	See Sodium Bichromate																	
Sodium Fluoride	NaF	4	1,04		20	+	+	-	+	+	+	+		+	+	+	+	+
Sodium Fluoride	NaF	4			40	+	+	-	+	+	+	+		+	o	+	+	+
Sodium Fluoride	NaF	4			60	o	+	-	+	+	+	+		+	o	+	+	+
Sodium Hydroxyde	NaOH	10	1,16		20	+	+	-	+	o	+	+	+	+	+	+	+	+
Sodium Hydroxyde	NaOH	10			40	+	+	-	+	o	+	+	+	+	+	+	+	+
Sodium Hydroxyde	NaOH	10			60	+	+	-	+	o	+	+	+	o	o	+	+	+
Sodium Hydroxyde	NaOH	30	1,33		20	+	+	-	+	o	+	+	+	o	+	+	+	+
Sodium Hydroxyde	NaOH	30			40	+	+	-	+	o	+	+	+	o	o	+	+	+
Sodium Hydroxyde	NaOH	30			60	+	+	-	+	o	+	+	+	o	o	+	+	+
Sodium Hydroxyde	NaOH	50	1,53		20	+	+	-	+	o	+	+	+	o	o	+	+	+
Sodium Hydroxyde	NaOH	50			40	+	+	-	+	o	+	+	+	o	-	+	+	+
Sodium Hydroxyde	NaOH	50			60	o	+	-	+	o	+	+	+	-	-	+	+	+
Sodium Hypochlorite	NaOCl	10			20	o	+	-	+	+	+	+	+	+	-	+	+	+
Sodium Hypochlorite	NaOCl	12,5			20	o	+	-	+	+	+	+	+	+	-	+	+	+
Sodium Hypochlorite	NaOCl	12,5			40	o	+	-	o	+	+	+	+	o	-	o	+	+
Sodium Hypochlorite	NaOCl	20			20	o	+	-	+	+	+	+	+	+	-	+	+	+
Sodium Hypochlorite	NaOCl	20			40	o	+	-	o	+	+	+	+	o	-	o	+	+
Sodium Hypochlorite	NaOCl	20			60	o	+	-	-	+	+	+	+	o	-	o	+	+
Sodium Hyposulphide	See Sodium Thiosulphate																	
Sodium Nitrate	NaNO ₃	45	1,37		20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Nitrate	NaNO ₃	45			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Nitrate	NaNO ₃	45			60	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Nitrite	NaNO ₂	50			20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Nitrite	NaNO ₂	50			40	+	+	+	+	+	+	+		+	o	+	+	+
Sodium Nitrite	NaNO ₂	50			60	+	+	+	+	+	+	+		+	-	+	+	+

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Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Sodium Perchlorate	NaClO ₄	25	1,18		20	o	+	+	+ ¹⁾	+	+	-		+	+	+	+	+
Sodium Perchlorate	NaClO ₄	25			40	o	+	+	+ ¹⁾	+	+	-		+	+	+	+	+
Sodium Perchlorate	NaClO ₄	25			60	o	+	o	+ ¹⁾	+	+	-		+	o	+	+	+
Sodium Phosphate	Na ₃ PO ₄	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Phosphate	Na ₃ PO ₄	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Phosphate	Na ₃ PO ₄	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Silicate						See Sodium Water Glass												
Sodium Sulphate	Na ₂ SO ₄	50	1,46		20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Sulphate	Na ₂ SO ₄	50			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Sulphate	Na ₂ SO ₄	50			60	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Sulphite	Na ₂ SO ₃	GL	1,18		20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Sulphite	Na ₂ SO ₃	GL			40	+	+	o	+	+	+	+		+	o	+	+	+
Sodium Sulphite	Na ₂ SO ₃	GL			60	+	+	-	+	+	+	+		+	-	+	+	+
Sodium Tetraborate						See Borax												
Sodium Thiosulphate	Na ₂ S ₂ O ₃	40			20	+	+	+	+	+	+	+		+	+	o	+	+
Sodium Thiosulphate	Na ₂ S ₂ O ₃	40			40	+	+	+	+	+	+	+		+	o	-	+	+
Sodium Thiosulphate	Na ₂ S ₂ O ₃	40			60	+	+	+	o	+	+	+		+	-	-	+	+
Sodium Water Glass	Na ₂ SiO ₃	20	1,24		20	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Water Glass	Na ₂ SiO ₃	20			40	+	+	+	+	+	+	+		+	+	+	+	+
Sodium Water Glass	Na ₂ SiO ₃	20			60	+	+	+	+	+	+	+		+	+	+	+	+
Spindle Oil		TR			20	+	+	+	+	+	+	+	+	+	+	o	+	+
Spindle Oil		TR			40	+	+	+	o	+	+	+	+	+	+	-	+	+
Spindle Oil		TR			60	+	+	+	o	+	+	+	+	o	o	-	+	+
Spirit of Wine						See Ethanol												
Spruce-Needle Oil						See Essential Oils												
Stannous Chloride	SnCl ₂	20	1,17		20	o	+	-	+	+	+	+		+	+	+	+	+
Stannous Chloride	SnCl ₂	20			40	o	+	-	+	+	+	+		+	+	+	+	+
Stannous Chloride	SnCl ₂	20			60	o	+	-	+	+	+	+		+	+	+	+	+
Starch Gum						See Dextrine												
Styrene	C ₆ H ₅ CHCH ₂	TR	0,91	All	20	+	+	+	o	o	+	+		o	-	-	+	+
Succinic Acid						See Ethane Dicarboxylic Acid												
Sulphur Chloride	S ₂ CL ₂	10			20	o	+	o	o	+	+	-		+	-	-	+	+
Sulphuric Acid	H ₂ SO ₄	40	1,30		20	o	+	-	+	+	+	+	+	+	o	+	+	+
Sulphuric Acid	H ₂ SO ₄	40			40	-	+	-	+	+	+	+	+	+	o	+	+	+
Sulphuric Acid	H ₂ SO ₄	40			60	-	o	-	o	+	+	+	+	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	80	1,73		20	o	+	-	+	+	+	+	+	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	80			40	-	o	-	+ ¹⁾	+	+	o	o	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	80			60	-	o	-	o	+	+	o	o	+	-	o	+	+
Sulphuric Acid	H ₂ SO ₄	90	1,82		20	+ ¹⁾	+	-	o	+	+	o	o	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	90			40	o	+	-	o	+	+	o	o	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	90			60	o	+	-	o	+	+	o	o	+	-	o	+	+
Sulphuric Acid	H ₂ SO ₄	98	1,84		20	+ ¹⁾	+	-	o	+	+	o	o	+	-	o	+	+
Sulphuric Acid	H ₂ SO ₄	98			40	o	+	-	o	+	+	o	o	o	-	o	+	+
Sulphuric Acid	H ₂ SO ₄	98			60	o	+	-	o	+	+	-	-	-	-	o	+	+
Sulphuric Ether						See Ether												
Sulphurous Acid	H ₂ SO ₃	50			20	o	+	-	+	+	+	+		+	o	+	+	+
Sulphurous Acid	H ₂ SO ₃	50			40	o	+	-	+	+	+	+		+	-	+	+	+
Sulphurous Acid	H ₂ SO ₃	50			60	-	o	-	+	+	+	+		o	-	+	+	+
Sulphite Lye						See Calcium Bisulphite												
Sylvine						See Potassium Chloride												

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Tannic Acid	C ₂ O ₆ H ₆	50			20	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	+	+	+	+
Tannic Acid	C ₂ O ₆ H ₆	50			40	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	o	+	+	+
Tannic Acid	C ₂ O ₆ H ₆	50			60	+ ¹⁾	+	-	+ ¹⁾	+	+	-		+	-	+	+	+
Tanning Extracts Vegetable		H			20	+ ¹⁾	+	+	+ ¹⁾	+	+	-		+	+	+	+	+
Tanning Extracts Vegetable		H			40	+ ¹⁾	+	o	+ ¹⁾	+	+	-		+	o	+	+	+
Tanning Extracts Vegetable		H			60	+ ¹⁾	+	-	o	+	+	-		+	-	o	+	+
Tartaric Acid	C ₄ H ₆ O ₆	GL	1,76		20	+	+	-	+	+	+	+		+	+	+	+	+
Tartaric Acid	C ₄ H ₆ O ₆	GL			40	+	+	-	+	+	+	+		+	+	+	+	+
Tartaric Acid	C ₄ H ₆ O ₆	GL			60	+	+	-	+	+	+	+		+	o	+	+	+
Tetrachloroethane	Cl ₂ CH-CHCl	TR	1,60		20	+	+	-	o	+	+	+		o	-	-	+	+
Tetrachloroethane	Cl ₂ CH-CHCl ₂	TR			40	+	+	-	o	+	+	+		o	-	-	+	+
Tetrachloroethane	Cl ₂ CH-CHCl ₂	TR			60	+	+	-	-	o	+	+		o	-	-	+	+
Tetrachloroethylene						Perchloroethylene												
Tetrachloromethane	CCl ₄	TR	1,59		20	+ ¹⁾	+	+	o	+	+ ¹⁾	o		+	-	o	+	+
Tetrachloromethane	CCl ₄	TR			40	+ ¹⁾	+	+	o	+	+ ¹⁾	o		+	-	-	+	+
Tetrachloromethane	CCl ₄	TR			60	+ ¹⁾	+	o	-	+	+ ¹⁾	o		+	-	-	+	+
Tetrahydrofurane	C ₄ H ₈ O	TR	0,89	B	20	+ ¹⁾	+	-	o	o	+	+	+	o	-	o	+	+
Tetrahydrofurane	C ₄ H ₈ O	TR			40	+ ¹⁾	+	-	-	-	+	+	+	o	-	-	+	+
Tetrahydrofurane	C ₄ H ₈ O	TR			60	+ ¹⁾	+	-	-	-	+	+	+	o	-	-	+	+
Tetrahydronaphtalene						Tetraline												
Tetraline	C ₁₀ H ₁₂	100	0,97	AllI	20	+	+	+	-	+	+	+		+	-	o	+	+
Tetraline	C ₁₀ H ₁₂	100			40	+	+	+	-	+	+	+		+	-	-	+	+
Tetraline	C ₁₀ H ₁₂	100			60	+	+	+	-	+	+	+		+	-	-	+	+
Thiofurane						Thiophene												
Thionyl Chloride	SOCl ₂	TR	1,66		20	+	+	-	-	+	+	+		-	-	+	+	+
Thionyl Chloride	SOCl ₂	TR			40	+	+	-	-	+	+	+		-	-	+	+	+
Thionyl Chloride	SOCl ₂	TR			60	+	+	-	-	+	+	+		-	-	+	+	+
Thiophene	C ₄ H ₄ S			AI	20	+	+	-	o	+	+	+		+	-	+	+	+
Toluene	C ₇ H ₈		0,87	AI	20	+	+	+	o	+	+	+	+	o	-	o	+	+
Toluene	C ₇ H ₈				40	+	+	+	o	+	+	+	+	o	-	-	+	+
Toluene	C ₇ H ₈				60	+	+	+	o	+	+	+	+	o	-	-	+	+
Toothpaste		H			20	+	+	+	+	+	+	+		+	+	+	+	+
Transformer Oil		TR			20	+	+	+	o	+	+	+		+	+	o	+	+
Transformer Oil		TR			40	+	+	+	o	+	+	+		+	+	-	+	+
Transformer Oil		TR			60	+	+	+	o	+	+	+		+	+	-	+	+
Tributyl Phosphate	C ₁₂ H ₂₇ O ₄ P	TR	0,98		20	+	+	o	+	+	+	+		+	-	+	+	+
Tributyl Phosphate	C ₁₂ H ₂₇ O ₄ P	TR			40	+	+	o	+	+	+	+		o	-	+	+	+
Tributyl Phosphate	C ₁₂ H ₂₇ O ₄ P	TR			60	+	+	o	+	+	+	+		-	-	+	+	+
Trichloroacetic Acid	CCl ₃ CO ₂ H	50			20	o	+	-	+	+	+	+		-	-	+	+	+
Trichloroacetic Acid	CCl ₃ CO ₂ H	50			40	-	+	-	+	+	+	+		-	-	o	+	+
Trichloroacetic Acid	CCl ₃ CO ₂ H	50			60	-	+	-	+	o	+	+		-	-	-	+	+
Trichloroacetic Acid	CCl ₃ CO ₂ H	TR	1,62		20	o	+	-	+	+	+	+		-	o	+	+	+
Trichloroacetic Acid	CCl ₃ CO ₂ H	TR			40	-	+	-	o	+	+	+		-	-	o	+	+
Trichloroacetic Acid	CCl ₃ CO ₂ H	TR			60	-	+	-	o	o	+	+		-	-	-	+	+
Trichlorobenzene	C ₆ H ₃ Cl ₃				20	+ ¹⁾	+	-	o	+	+	-		+	-	+	+	+
Trichlorobenzene	C ₆ H ₃ Cl ₃				40	+ ¹⁾	+	-	o	+	+	-		+	-	+	+	+
Trichlorobenzene	C ₆ H ₃ Cl ₃				60	+ ¹⁾	+	-	o	+	+	-		+	-	o	+	+
Trichloroethane	C ₂ H ₃ Cl ₃	TR	1,34		20	+ ¹⁾	+	-	o	+	+	o	o	o	-	-	+	+
Trichloroethylene	C ₂ HCl ₃	50			20	+	+	-	o	+	+ ¹⁾	+		o	-	o	+	+
Trichloroethylene	C ₂ HCl ₃	50			40	+	+	-	o	+	+ ¹⁾	+		o	-	-	+	+

TR = technically pure, GL = saturated solution, H = commercial composition
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC



Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3.16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Trichloroethylene	C ₂ HCl ₃	50			60	+	+	-	o	+	+ ¹⁾	+		o	-	-	+	+
Trichloroethylene	C ₂ HCl ₃	TR	1,47		20	+	+	-	o	+	+ ¹⁾	+		+	-	o	+	+
Trichloroethylene	C ₂ HCl ₃	TR			40	+	+	-	o	+	+ ¹⁾	+		o	-	-	+	+
Trichloroethylene	C ₂ HCl ₃	TR			60	+	+	-	-	+	+ ¹⁾	+		o	-	-	+	+
Trichloromethane						See Chloroform												
Trichlorophenol						See Trichlorbenzene												
Tricresyl Phosphate	PO ₄ (C ₆ H ₄ CH ₃) ₃	TR	1,13		20	+	+	+	+	+	+	+		-	o	o	+	+
Tricresyl Phosphate	PO ₄ (C ₆ H ₄ CH ₃) ₃	TR			40	+	+	+	o	+	+	+		-	-	-	+	+
Tricresyl Phosphate	PO ₄ (C ₆ H ₄ CH ₃) ₃	TR			60	+	+	+	o	+	+	+		-	-	-	+	+
Triethylamine	C ₆ H ₁₅ N	TR	0,73	B	20	+	+	+	+	o	+	+		+	-	+	+	+
Triethylamine	C ₆ H ₁₅ N	TR			40	+	+	+	+	o	+	+		+	-	+	+	+
Triiodinemethane	CHJ ₃				20	+	+	-	+	+	+	+		+	+	o	+	+
Triiodinemethane	CHJ ₃				40	+	+	-	+	+	+	+		+	+	o	+	+
Triiodinemethane	CHJ ₃				60	+	+	-	+	+	+	+		+	o	-	+	+
Trilene						See Trichloroethylene												
Triol						See Butane Triol												
Trisodium Phosphate						See Sodium Phosphate												
Turpentine Oil		H	0,86		20	+	+	+	-	+	+	+		+	+	-	+	+
Turpentine Oil		H			40	+	+	+	-	o	+	+		+	+	-	+	+
Turpentine Oil		H			60	+	+	+	-	o	+	+		+	+	-	+	+
Urea	CH ₄ N ₂ O	10			20	+	+	+	+	+	+	+		+	+	+	+	+
Urea	CH ₄ N ₂ O	10			40	+	+	+	+	+	+	+		+	+	+	+	+
Urea	CH ₄ N ₂ O	10			60	+	+	+	+	+	+	+		+	+	+	+	+
Urea	CH ₄ N ₂ O	33			20	+	+	+	+	+	+	+		+	+	+	+	+
Urea	CH ₄ N ₂ O	33			40	+	+	o	+	+	+	+	+	+	+	+	+	+
Urea	CH ₄ N ₂ O	33			60	+	+	o	+	+	+	+	+	+	+	+	+	+
Urine					20	+	+	-	+	+	+	+		+	+	+	+	+
Urine					40	+	+	-	+	+	+	+		+	+	+	+	+
Urine					60	+	+	-	+	+	+	+		+	+	+	+	+
Vinegar		H			20	+	+	o	+	+	+	+		-	o	+	+	+
Vinegar		H			40	+	+	o	+	+	+	+		-	o	+	+	+
Vinegar		H			60	+	+	-	+	+	+	+		-	o	o	+	+
Vinyl Acetate	C ₄ H ₆ O ₂	TR	0,93	AI	20	+	+	-	+	+	+	+		o	+	o	+	+
Vinyl Acetate	C ₄ H ₆ O ₂	TR			40	+	+	-	o	+	+	+		-	+	o	+	+
Vinyl Acetate	C ₄ H ₆ O ₂	TR			60	+	+	-	o	+	+	+		-	+	o	+	+
Vinyl Benzene						See Styrene												
Vinyl Carbinol						See Allyl Alcohol												
Vinyl Cyanide						See Acrylnitrile												
Vinylidenechloride						See Dichloroethylene 1.1												
Water	H ₂ O		1,00		20	+	+	+	+	+	+	+	+	+	+	+	+	+
Water	H ₂ O				40	+	+	+	+	+	+	+	+	+	+	+	+	+
Water	H ₂ O				60	+	+	+	+	+	+	+	+	+	+	+	+	+
Water, distilled	H ₂ O		1,00		20	+	+	o	+	+	+	+	+	+	+	+	+	+
Water, distilled	H ₂ O				40	+	+	o	+	+	+	+	+	+	+	+	+	+
Water, distilled	H ₂ O				60	+	+	o	+	+	+	+	+	+	+	o	+	+
White Spirit				All		+ ¹⁾	+	-	+ ¹⁾	+	+	o		+	o	-	+	+
White Vitriol						See Zinc Sulphate												
Wool Fat						See Lanolin												
Xylene	C ₆ H ₄ (CH ₃) ₂	TR	0,86	All	20	+	+	+	-	+	+	+		+	-	-	+	+
Xylene	C ₆ H ₄ (CH ₃) _w	TR			40	+	+	+	-	+	+	+		o	-	-	+	+

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Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm ³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 3 16 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	LCP	FKM	NBR	EPDM	PTFE/FEP	FFKM
Xylene	C ₆ H ₄ (CH ₃) ₂	TR			60	+	+	+	-	o	+	+		o	-	-	+	+
Zinc Chloride	ZnCl ₂	20	1,19		20	+	+	-	+	+	+	+		+	+	+	+	+
Zinc Chloride	ZnCl ₂	20			40	+	+	-	+	+	+	+		+	+	+	+	+
Zinc Chloride	ZnCl ₂	20			60	+	+	-	+	+	+	+		+	+	+	+	+
Zinc Chloride	ZnCl ₂	75	2,07		20	-	+	-	+	+	+	+		+	+	+	+	+
Zinc Chloride	ZnCl ₂	75			40	-	+	-	+	+	+	+		+	+	+	+	+
Zinc Chloride	ZnCl ₂	75			60	-	+	-	+	+	+	+		+	+	+	+	+
Zinc Sulphate	ZnSO ₄	10	1,11		20	+	+	o	+	+	+	+		+	+	+	+	+
Zinc Sulphate	ZnSO ₄	10			40	+	+	o	+	+	+	+		+	+	+	+	+
Zinc Sulphate	ZnSO ₄	10			60	+	+	o	+	+	+	+		+	o	+	+	+
Zinc Sulphate	ZnSO ₄	GL	1,38		20	+	+	o	+	+	+	+		+	+	+	+	+
Zinc Sulphate	ZnSO ₄	GL			40	+	+	o	+	+	+	+		+	+	+	+	+
Zinc Sulphate	ZnSO ₄	GL			60	+	+	-	+	+	+	+		+	o	+	+	+

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