

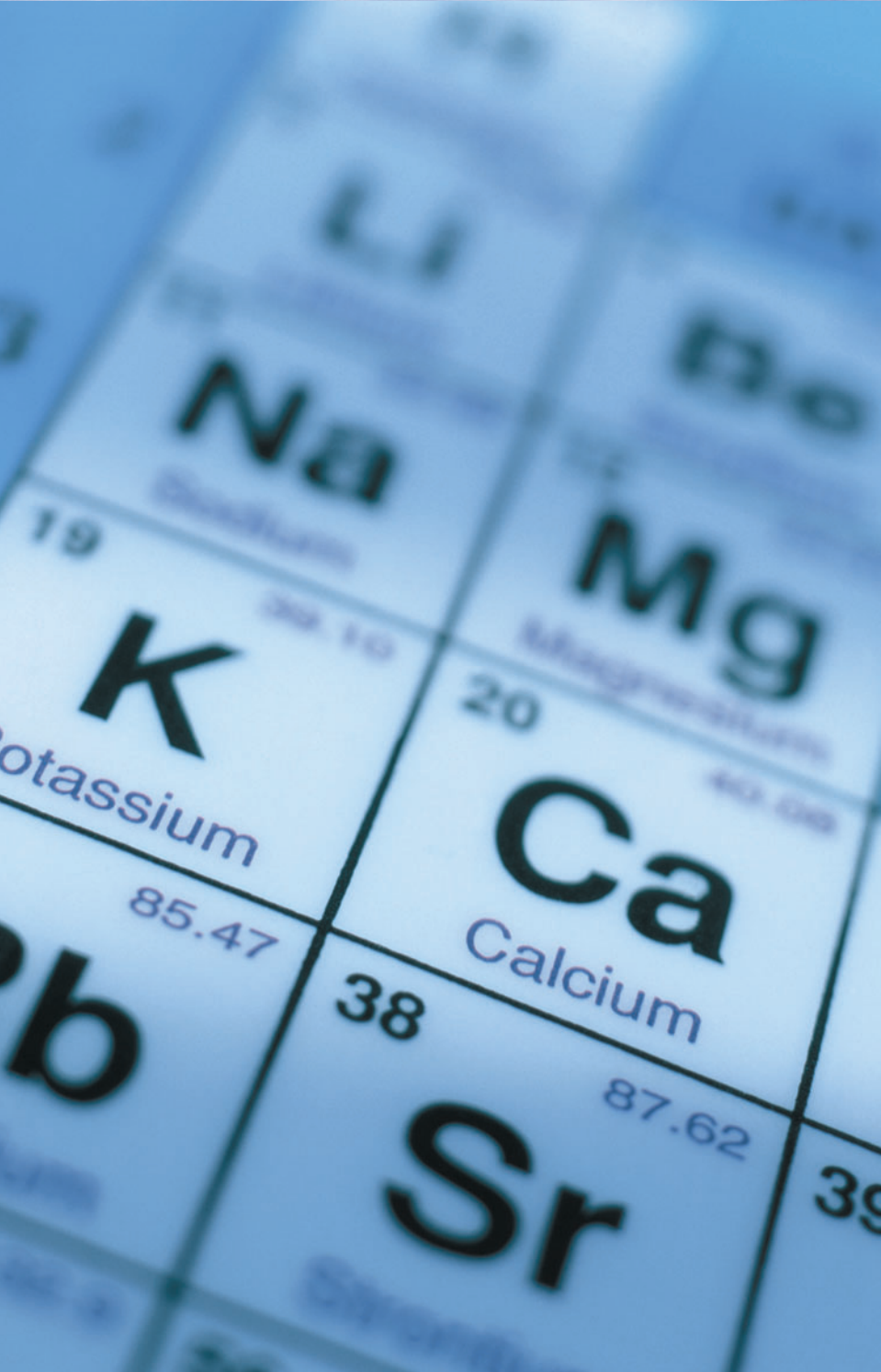


Innovators in Flow Technology



Resistance Chart

- Barrel, Drum and Container Pumps
- High Viscosity Liquid Pumps
- Centrifugal Immersion Pumps
- Liquid Meters



Construction materials of pumps and liquid 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 liquid 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 94/9/EC. 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 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	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
 + = resistant, o = limited resistance, - = not resistant, ¹⁾ Not resistant on FMC

FLUX 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	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	+	+	+

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

FLUX 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	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	All	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	AIII	20	+	+	o	o	+	+	+	o	-	o	+	+
Benzene	C ₆ H ₆	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	AIII	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 FKM

FLUX 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	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	AI	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		AI	20	+	+	o	-	o	+	+	-	-	o	+	+
Butyl Alcohol	See Butanol																
Butyl Chloride	C ₄ H ₉ Cl	TR	0,89	AI	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	AI	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

FLUX 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	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	-	-	+	+	+
Chlorine Water	Cl ₂ + H ₂ O	GL			40	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	+	+	+

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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 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	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 Propylenaldehyd																
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	AI	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	AIII	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	+	+
Decahydronaphthalin	See Decaline																
Decaline	C ₁₀ H ₁₈	TR	0,88	AIII	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 Phthalate	C ₆ H ₄ (CO ₂ C ₄ H ₉) ₂	TR	1,05		20	+	+	+	+	+	+	+	o	-	o	+	+
Dibutyl Phthalate	C ₆ H ₄ (CO ₂ C ₄ H ₉) ₂	TR			40	+ ¹⁾	+	+	o	+	+	+	-	-	-	+	+
Dibutyl Phthalate	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

FLUX 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	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		AIII	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 Tetrahydrofuran																
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 Phthalate																
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	+	+	+	+	+	+	+	-	-	-	+	+

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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 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	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	CH ₃ C-CO-OC ₂ H ₅			All	20	o	+	-	+	o	+	+	-	-	+	+	+
Ethyl Chloracetate	CH ₃ C-CO-OC ₂ H ₅				40	o	+	-	+	o	+	+	-	-	+	+	+
Ethyl Chloracetate	CH ₃ 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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FLUX 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	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	AIII	20	+	+	-	+	+	+	+	+	-	+	+	+
Formaldehyde	CH ₂ O+H ₂ O	40		AIII	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		AIII	20	+	+	+	+	+	+	+	+	+	+	+	+
Fuel Oil		H			40	+	+	+	o	+	+	+	+	+	o	+	+
Fuel Oil		H			60	+	+	+	o	+	+	+	+	+	-	+	+
Furfuryl Alcohol	C ₅ H ₆ O ₂	TR	1,13	AIII	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	+	+	+	+	+	+	+	+	+	+	+	+

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Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	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	-	-	+	+
Glycose	See Glycerine																
Heptane	C ₇ H ₁₆	TR	0,68	AI	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		AI	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	AIll	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	+	+
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 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	FKM	NBR	EPDM	PTFE/FEP	FFKM
Hydrofluoric Acid	HF	40			40	-	o	-	+ ¹⁾	+	+	-	+	-	-	+	+
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	-	-	+	+
Hydrofluosilic Acid	H ₂ SiF ₆	32	1,17		20	-	+	-	+ ¹⁾	+	+	-	+	o	+	+	+
Hydrofluosilic Acid	H ₂ SiF ₆	32			40	-	o	-	+ ¹⁾	+	+	-	+	-	o	+	+
Hydrofluosilic Acid	H ₂ SiF ₆	32			60	-	o	-	+ ¹⁾	+	+	-	+	-	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	+ ¹⁾	+	+	+ ¹⁾	+	+	o	+	o	+	+	+
Hydrogen Peroxide	H ₂ O ₂	20			40	+ ¹⁾	+	+	+ ¹⁾	+	+	o	o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	20			60	+ ¹⁾	+	+	o	+	+	o	o	-	-	+	+
Hydrogen Peroxide	H ₂ O ₂	30	1,11		20	+ ¹⁾	+	+	+ ¹⁾	+	+	o	+	-	+	+	+
Hydrogen Peroxide	H ₂ O ₂	30			40	+ ¹⁾	+	+	+ ¹⁾	+	+	o	o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	30			60	+ ¹⁾	+	+	o	+	+	o	o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	90	1,42		20	+ ¹⁾	+	+	-	+	+	-	+	-	+	+	+
Hydrogen Peroxide	H ₂ O ₂	90			40	+ ¹⁾	+	+	-	o	+	-	o	-	o	+	+
Hydrogen Peroxide	H ₂ O ₂	90			60	+ ¹⁾	+	+	-	o	+	-	o	-	o	+	+
Hydroxy Acetic Acid	See Glycolic Acid																
Hydroxybenzene	See Phenol																
Hydroxysuccinic Acid	HOOC-CH ₂ -CHOH-COOH	50			20	+ ¹⁾	+	-	+ ¹⁾	+	+	o	+	+	+	+	+
Hydroxysuccinic Acid	HOOC-CH ₂ -CHOH-COOH	50			40	+ ¹⁾	+	-	+ ¹⁾	+	+	o	+	+	+	+	+
Hydroxysuccinic Acid	HOOC-CH ₂ -CHOH-COOH	50			60	+ ¹⁾	+	-	+ ¹⁾	+	+	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		Al	20	+	+	+	+	+	+	+	+	+	+	+	+
Isooctanol	C ₈ H ₁₇ -CH(C ₂ H ₅)	TR	0,83	All	20	+	+	+	+	+	+	+	+	o	+	+	+
Isopropanol	See Propanol																
Isopropyl Acetate	C ₅ H ₁₀ O ₂		0,87	Al	20	+ ¹⁾	+	o	o	+	+	o	-	+	+	+	+
Isopropyl Ether	C ₆ H ₁₄ O	TR	0,73	Al	20	+ ¹⁾	+	o	o	+	+	-	-	-	-	+	+
Isopropyl Ether	C ₆ H ₁₄ O	TR			40	+ ¹⁾	+	o	o	o	+	-	-	-	-	+	+
Isopropyl Ether	C ₆ H ₁₄ O	TR			60	+ ¹⁾	+	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

FLUX 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	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	Alll	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

FLUX 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	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 Toluene																
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

FLUX 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	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	+	-	+	+	+
Nitric Acid	HNO ₃	10			40	+ ¹⁾	+	-	o	+	+	o	+	-	+	+	+
Nitric Acid	HNO ₃	10			60	+ ¹⁾	+	-	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

FLUX 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	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	AI	20	+	+	+	-	+	+	+	+	+	-	+	+
Petrol		H			40	+	+	+	-	+	+	+	+	+	-	+	+
Petrol		H			60	+	+	+	-	+	+	+	+	+	-	+	+
Petroleum Crude					20	+	+	+	+	+	+	+	+	+	-	+	+
Petroleum Crude					40	+	+	+	+	+	+	+	+	+	-	+	+
Petroleum Crude					60	+	+	+	+	+	+	+	+	+	-	+	+
Petroleum Ether		TR	0,69	AI	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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FLUX 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	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	+	+	+	+	+	+	+	+	+	+	+	+

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FLUX 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	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 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	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	+	+	+	+	+	+	+	+	+	o	+	+
Propyl Alcohol	C ₃ H ₈ O	TR			40	+	+	+	+	+	+	+	+	+	o	+	+
Propyl Alcohol	C ₃ H ₈ O	TR			60	+	+	+	+	+	+	+	+	+	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	+	+
Pyrogallol 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																
Saltpeter	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	+	+	+	+	+	+	+	+	+	+	+	+

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

FLUX 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	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	+	+	+	+	+	+	+	+	-	+	+	+

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	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	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	80			60	-	o	-	o	+	+	o	+	-	o	+	+
Sulphuric Acid	H ₂ SO ₄	90	1,82		20	+ ¹⁾	+	-	o	+	+	o	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	90			40	o	+	-	o	+	+	o	+	-	+	+	+
Sulphuric Acid	H ₂ SO ₄	90			60	o	+	-	o	+	+	o	+	-	o	+	+
Sulphuric Acid	H ₂ SO ₄	98	1,84		20	+ ¹⁾	+	-	o	+	+	o	+	-	o	+	+
Sulphuric Acid	H ₂ SO ₄	98			40	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																

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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 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	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	Alll	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	-	-	+	+
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 316 Ti	Hastelloy C	Aluminium alloy	PP	PVDF	ETFE	PPS	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 Trichlorobenzene																
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	-	-	+	+

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	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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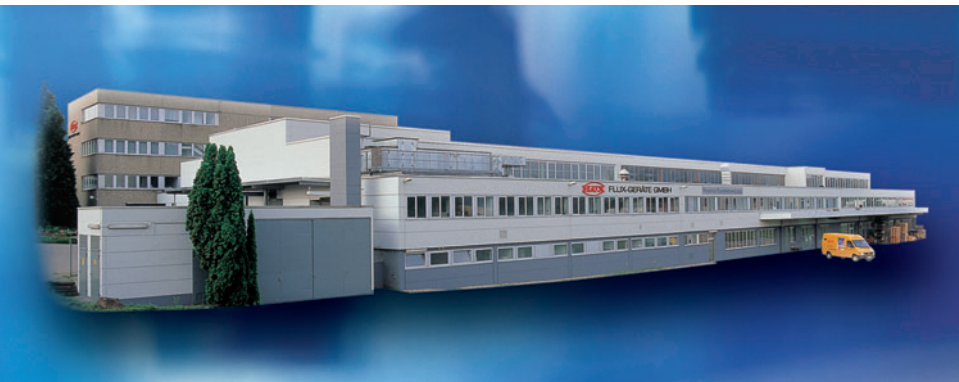
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