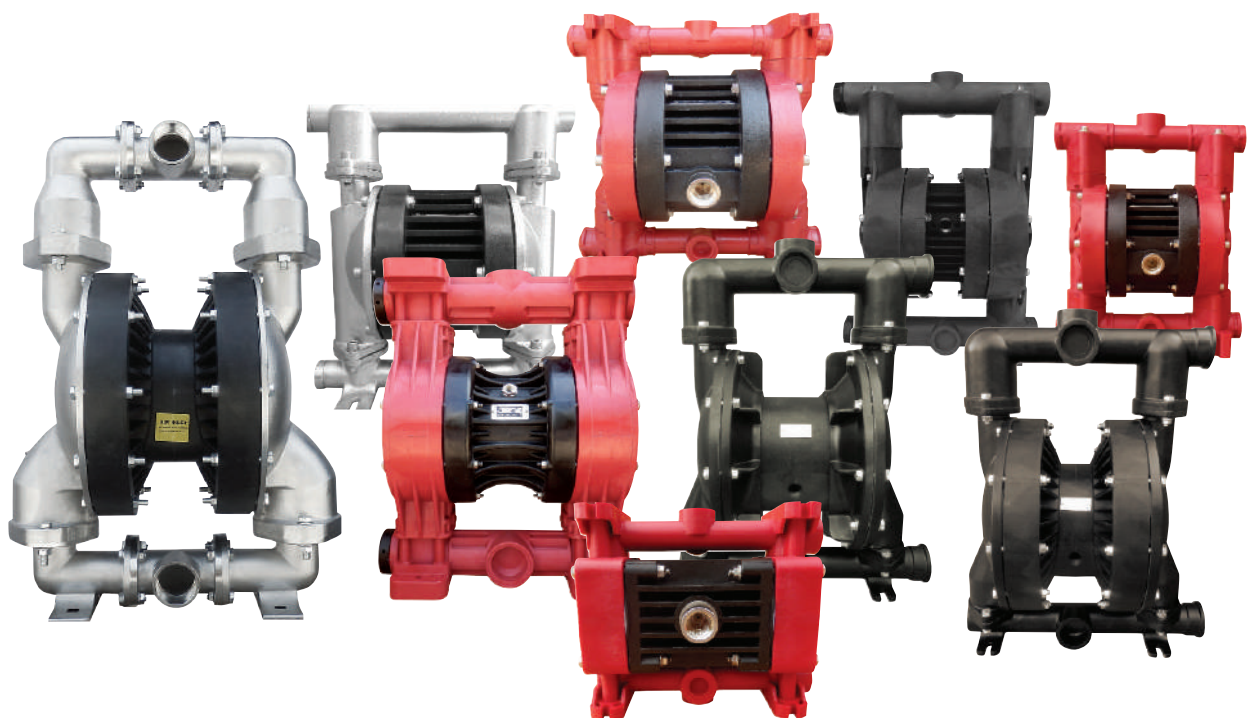




*We Make The Difference*



**EAC CE**



II 2G Ex h IIB T4 Gb  
II 2D Ex h IIIB T135°C Db  
Baseefa15ATEX13DR/RN3



# Chemical compatibility table

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## Chemical Compatibility table

The information contained herein is only to be used with regard to the initial choice of pump construction materials.

We have obtained this information from reliable sources. AlphaDynamic PUMPS has not performed any form of testing in this regard and therefore accepts no liability for the accuracy of the details provided.

Each application has its own specific set of parameters as regards stress, exposure time, chemical concentration and temperature.

AlphaDynamic PUMPS recommends practical testing of materials coming into contact with chemical substances.

### NOTE REGARDING HALOGENATED SOLVENTS

In certain cases, the corrosive action of halogenated solvents coming into contact with aluminum or galvanized materials could cause an explosion. To avoid any form of danger, when transferring halogenated solvents, the use of steel or PVDF pumps is recommended.

### General characteristics of the plastic and rubber materials

#### NITRILE RUBBER (NBR)

Excellent resistance to mineral, vegetal and animal oils and greases, to aliphatic hydrocarbons.

Resistant to alkalis. Not recommended for use with amines, chetons, benzene, ethers, chlorated solvents and concentrated acids.

**APPLICATIONS:** Oil splash guards, O-rings, seals.

Temperature of use: from -40°C to 120°C

#### Good resistance:

- Mineral oils and greases
- Light fuel oils, gas oil
- Aliphatic hydrocarbons
- Vegetable and animal oils and fats
- Hot water (100°C), seawater, salt solutions

#### Medium resistance:

- High-aromatic-content fuels
- Some types of Freon
- Dilute acid solutions
- Petroleum-based hydraulic fluids
- Diester - based synthetic lubricants

#### Poor resistance:

- Benzene and chlorinated hydrocarbons
- Aromatic hydrocarbons (benzol)
- Phosphoric-ester-based hydraulic fluids
- Glycol-based brake fluids

#### EPDM

Excellent resistance to heat and to atmospheric agents and good service life length. Excellent compatibility with acids, alcohols and esters. Poor resistance to mineral oils and greases.



**APPLICATIONS:** Sections and technical articles for the automotive industry, seals, items for anti-acid protection.

Temperature of use: from -40°C to 140°C

### **FPM (FLUOROCARBON RUBBER) (e.g. VITON®)**

**APPLICATIONS:** Fluoro-elastomers notable resistance to heat and chemical agents has improved the performance of various auto and aircraft components and many types of industrial equipment. These mean that the industry can be supplied with items such as O-rings, diaphragms, coatings, rubberized fabrics, piping and a huge variety of special parts for use under an exceptionally-large range of operating conditions.

### **RESISTANCE TO OILS, FATS AND CHEMICAL AGENTS**

The performance of fluorocarbon rubber in contact with fuels, oils, solvents and chemical agents cannot be equalled by any other type of synthetic rubber. It also offers excellent resistance to lubricants, most mineral acids and many aliphatic and aromatic hydrocarbons such as carbon tetrachloride, toluene, benzene and xylene.

### **PTFE**

Fluoro material widely used for its excellent chemical strength but with weak mechanical properties. Deformation even under very small loads represents a useful feature to make seals.

### **ADVANTAGES**

High chemical resistance. Excellent resistance to both low and high temperatures up to 260°C Low flammability , Low friction coefficient.

### **DRAWBACKS**

Mechanical strength values such as tensile and compression are very low and in particular deformation strength under load is scarce.

### **APPLICATIONS**

**Mechanical:** because of its low friction coefficient, PTFE can be used to make bearings as long as these are meant to support a weak load.

**Food:** physiologically inert, some bodies have it approved for applications in contact with food; however some nations have doubts as whether it can be used with food.

**Electrical:** excellent dielectric characteristics, self-extinguishing capabilities and stability to bad weather have increased its use in this sector.

**Chemical:** very high chemical resistance to acids and alkalis is typical of the fluoro-polymers. Used to make components of the petrochemical and chemical industries.

Temperature of use: from 4°C to 260°C.

### **POLYPROPYLENE (PP)**

The mechanical resistance values of PP are higher than those of the PE. Alkali and acid resistance makes it suitable in the chemical industry for items subject to relatively weak strains.

### ADVANTAGES

- high chemical resistance
- resistance to tensile strength, high values as regards polyolefins
- low specific weight
- easily machinable by machines or for welding

### DRAWBACKS

Low mechanical resistance compared to techno polymers: tensile, flexural, compression, and others as well as thermal stress. Stiffer and less resistant to impacts than PE.

### APPLICATIONS

**Mechanical:** also used for mechanical items in corrosive environments; compared to high molecular weight polyethylenes, PP has a higher tensile strength than PE HMW

**Food:** physiologically inert if of natural color, it is approved for use in contact with food.

**Electrical:** good dielectric characteristics. Stability to bad weather makes it useful for this sector.

**Chemical:** PP is typically used by the chemical industry because of its high acid and alkali resistance and because it is much more resistant to heat than PVC. Used for components by the galvanic chemical and petrochemical industry to make valves, flanges, gears and others. Not recommended for use with highly concentrated oxidizing acids.

Temperature of use: from 4°C to 70°C.

### PVDF

This is a new fluoro-polymer. As in the case of the fluoro-materials, chemical strength is its most interesting asset. Compared to PTFE, mechanical characteristics are much higher besides not being subject to deformation under load.

### ADVANTAGES

High chemical strength typical of fluoro-materials. Compared to PTFE higher mechanical strength such as tensile and compression. Excellent resistance to both low and high temperatures up to 160°C, as well as to UV beams. Very good dimensional stability. Good wear strength.

### DRAWBACKS

Lower resistance to high temperature (160°C) compared to PTFE.

Rather high linear thermal expansion coefficient. Only partially compatible with acetones, esters, ethers, organic bases and alkaline solutions.

### APPLICATIONS

**Chemical:** the fluoro-polymers are typically very resistant to acids and alkali. Used to make components for the petrochemical and chemical industries.

**Food:** physiologically inert if of natural color, it is approved by various bodies for use in contact with food. Because of these characteristics, this material is often used in the construction of food machines, pumps for food liquids and others.

**Electrical:** because of its excellent dielectric characteristics, self-extinguishing capabilities without adding halogens and stability to bad weather, its use for this sector is increasing.

**Mechanical:** low friction coefficient makes it suitable for bearings even if they work in water.

Temperature of use: from -40° to 160°C.

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Accumulator Acid	See Sulphuric Acid 40 %													
Acetaldehyde	CH <sub>3</sub> CHO	40			20	+	+	+	+	+	+	-	+	+
Acetaldehyde	CH <sub>3</sub> CHO	40			40	+	+	+	o	+	+	-	+	+
Acetaldehyde	CH <sub>3</sub> CHO	40			60	+	+	o	o	+	o	-	+	+
Acetaldehyde	CH <sub>3</sub> CHO	TR	0,79	B	20	+	+	o	o	+	o	-	o	+
Acetaldehyde	CH <sub>3</sub> CHO	TR			40	+	+	-	-	o	-	-	o	+
Acetamide	CH <sub>3</sub> CO-NH <sub>2</sub>	TR	0,98		20	+	+	o	+	+	+	+	+	+
Acetamide	CH <sub>3</sub> CO-NH <sub>2</sub>	TR			40	+	+	o	+	+	+	o	+	+
Acetamide	CH <sub>3</sub> CO-NH <sub>2</sub>	TR			60	+	+	-	o	+	+	-	o	+
Acetanhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	TR	1,09	All	20	+	+	+	o	o	o	-	o	+
Acetanhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	TR			40	+	+	+	o	-	-	-	-	+
Acetanhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	TR			60	+	+	o	o	-	-	-	-	+
Acetic Acid	CH <sub>3</sub> COOH	10			20	+	+	o	+	+	o	o	+	+
Acetic Acid	CH <sub>3</sub> COOH	10			40	+	+	o	+	+	-	-	+	+
Acetic Acid	CH <sub>3</sub> COOH	10			60	+	+	-	+	+	-	-	o	+
Acetic Acid	CH <sub>3</sub> COOH	25			20	+	+	o	+	+	-	-	+	+
Acetic Acid	CH <sub>3</sub> COOH	25			40	+	+	o	+	+	-	-	o	+
Acetic Acid	CH <sub>3</sub> COOH	25			60	+	+	-	+	+	-	-	-	+
Acetic Acid	CH <sub>3</sub> COOH	50			20	+	+	o	+	+	-	-	o	+
Acetic Acid	CH <sub>3</sub> COOH	50			40	+	+	o	+	+	-	-	o	+
Acetic Acid	CH <sub>3</sub> COOH	50			60	+	+	-	+	+	-	-	-	+
Acetic Acid	CH <sub>3</sub> COOH	80			20	+	+	-	+	+	-	-	o	+
Acetic Acid	CH <sub>3</sub> COOH	80			40	+	+	-	+	+	-	-	o	+
Acetic Acid	CH <sub>3</sub> COOH	80			60	+	+	-	o	+	-	-	-	+
Acetic Acid	CH <sub>3</sub> COOH	100	1,05		20	+	+	-	o	+	-	-	o	+
Acetic Acid	CH <sub>3</sub> COOH	100			40	+	+	-	o	+	-	-	-	+
Acetic Acid	CH <sub>3</sub> COOH	100			60	+	+	-	o	o	-	-	-	+
Acetic Anhydride	See Acetanhydride													
Acetic Ether	See Ethyl Acetate													
Acetic Methyl Ester	CH <sub>3</sub> CO <sub>2</sub> CH <sub>3</sub>	100	0,93	Al	20	+	+	-	+	+	-	-	-	+
Acetic Methyl Ester	CH <sub>3</sub> CO <sub>2</sub> CH <sub>3</sub>	100			40	+	+	-	+	o	-	-	-	+
Acetic Methyl Ester	CH <sub>3</sub> CO <sub>2</sub> CH <sub>3</sub>	100			60	+	+	-	+	-	-	-	-	+
Acetone	CH <sub>3</sub> CO-CH <sub>3</sub> +H <sub>2</sub> O	10		B	20	+	+	+	+	+	o	-	+	+
Acetone	CH <sub>3</sub> CO-CH <sub>3</sub> +H <sub>2</sub> O	10			40	+	+	+	+	+	o	-	o	+
Acetone	CH <sub>3</sub> CO-CH <sub>3</sub> +H <sub>2</sub> O	10			60	+	+	o	o	+	-	-	-	+
Acetone	CH <sub>3</sub> CO-CH <sub>3</sub>	TR	0,79	B	20	+	+	+	+	o	-	-	+	+
Acetone	CH <sub>3</sub> CO-CH <sub>3</sub>	TR			40	+	+	o	+	o	-	-	o	+
Acetone	CH <sub>3</sub> CO-CH <sub>3</sub>	TR			60	+	+	o	o	-	-	-	-	+
Acetonitrile	CH <sub>3</sub> -CN	TR	0,78	B	20	+	+	+	+	o	o	-	o	+
Acetonitrile	CH <sub>3</sub> -CN	TR			40	+	+	+	+	-	o	-	-	+
Acetonitrile	CH <sub>3</sub> -CN	TR			60	-	+	+	+	-	o	-	-	+
Acetylene Dichloride	See Dichloroethylene 1,1													
Acrylonitrile	CH <sub>2</sub> =CH-CN	TR	0,81	Al	20	+	+	+	+	+	o	-	o	+
Acrylonitrile	CH <sub>2</sub> =CH-CN	TR			40	+	+	+	o	o	o	-	o	+
Acrylonitrile	CH <sub>2</sub> =CH-CN	TR			60	+	+	+	o	o	o	-	-	+
Adipic Acid	C <sub>7</sub> H <sub>12</sub> O <sub>2</sub>	GL	0,89	All	20	+	+	o	+	+	+	+	+	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Adipic Acid	C <sub>7</sub> H <sub>12</sub> O <sub>2</sub>	GL			40	+	+	-	+	+	+	+	+	+
Adipic Acid	C <sub>7</sub> H <sub>12</sub> O <sub>2</sub>	GL			60	+	+	-	+	+	+	+	+	+
Allyl Alcohol	H <sub>2</sub> C=CH-CH <sub>2</sub> -OH	96	0,87	B	20	+	+	o	+	+	o	+	o	+
Allyl Alcohol	H <sub>2</sub> C=CH-CH <sub>2</sub> -OH	96			40	+	+	o	+	+	-	+	o	+
Allyl Alcohol	H <sub>2</sub> C=CH-CH <sub>2</sub> -OH	96			60	+	+	o	+	+	-	+	o	+
Alum	See Potassium Aluminium Sulphate													
Aluminium Chloride	AlCl <sub>3</sub>	10			20	o	+	-	+	+	+	+	+	+
Aluminium Chloride	AlCl <sub>3</sub>	10			40	o	+	-	+	+	+	+	+	+
Aluminium Chloride	AlCl <sub>3</sub>	10			60	o	+	-	+	+	+	o	+	+
Aluminium Chloride	AlCl <sub>3</sub>	GL	2,40		20	-	+	-	+	+	+	+	+	+
Aluminium Chloride	AlCl <sub>3</sub>	GL			40	-	+	-	+	+	+	+	+	+
Aluminium Chloride	AlCl <sub>3</sub>	GL			60	-	o	-	+	+	+	+	+	+
Aluminium Nitrate	Al(NO <sub>3</sub> ) <sub>3</sub>	GL			20	+	+	-	+	+	+	+	+	+
Aluminium Nitrate	Al(NO <sub>3</sub> ) <sub>3</sub>	GL			40	+	+	-	+	+	+	+	+	+
Aluminium Nitrate	Al(NO <sub>3</sub> ) <sub>3</sub>	GL			60	o	+	-	+	+	+	o	+	+
Aluminium Sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10			20	+	+	-	+	+	+	+	+	+
Aluminium Sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10			40	+	+	-	+	+	+	+	+	+
Aluminium Sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10			60	+	+	-	+	+	+	+	+	+
Aluminium Sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	GL	1,61		20	+	+	-	+	+	+	+	+	+
Aluminium Sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	GL			40	o	+	-	+	+	+	+	+	+
Aluminium Sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	GL			60	o	o	-	+	+	+	+	o	+
Amino Acid Amide	See Formamide													
Ammonia Solution	See Ammonia Water													
Ammonia Water	NH <sub>4</sub> ClOH	GL			20	+	+	+	+	+	-	+	+	+
Ammonia Water	NH <sub>4</sub> ClOH	GL			40	+	+	+	+	+	-	o	+	+
Ammonia Water	NH <sub>4</sub> ClOH	GL			60	+	+	+	+	+	-	o	+	+
Ammonium Acetate	CH <sub>3</sub> -COONH <sub>4</sub> Cl+H <sub>2</sub> O				20	+	+	+	+	+	+	+	+	+
Ammonium Acetate	CH <sub>3</sub> -COONH <sub>4</sub> Cl+H <sub>2</sub> O				40	+	+	o	+	+	+	+	+	+
Ammonium Acetate	CH <sub>3</sub> -COONH <sub>4</sub> Cl+H <sub>2</sub> O				60	+	+	o	+	+	+	+	+	+
Ammonium Bromide	NH <sub>4</sub> Br+H <sub>2</sub> O	40	1,27		20	o	+	-	+	+	+	+	+	+
Ammonium Bromide	NH <sub>4</sub> Br+H <sub>2</sub> O	40			40	o	+	-	+	+	+	+	+	+
Ammonium Bromide	NH <sub>4</sub> Br+H <sub>2</sub> O	40			60	-	o	-	+	+	+	+	+	+
Ammonium Carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> +H <sub>2</sub> O	25			20	+	+	+	+	+	+	+	+	+
Ammonium Carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> +H <sub>2</sub> O	25			40	+	+	+	+	+	+	+	+	+
Ammonium Carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> +H <sub>2</sub> O	25			60	+	+	+	+	+	+	+	+	+
Ammonium Chloride	NH <sub>4</sub> Cl+H <sub>2</sub> O	GL	1,07		20	+	+	-	+	+	+	+	+	+
Ammonium Chloride	NH <sub>4</sub> Cl+H <sub>2</sub> O	GL			40	+	+	-	+	+	+	+	+	+
Ammonium Chloride	NH <sub>4</sub> Cl+H <sub>2</sub> O	GL			60	o	+	-	+	+	+	+	+	+
Ammonium Fluoride	NH <sub>4</sub> F+H <sub>2</sub> O	14			20	o	+	-	+	+	+	+	+	+
Ammonium Fluoride	NH <sub>4</sub> F+H <sub>2</sub> O	14			40	o	+	-	+	+	+	+	+	+
Ammonium Fluoride	NH <sub>4</sub> F+H <sub>2</sub> O	14			60	-	+	-	+	+	+	+	o	+
Ammonium Fluosilicate	(NH <sub>4</sub> ) <sub>2</sub> SiF <sub>6</sub> +H <sub>2</sub> O	TR			20	+	+	-	+	+	+	+	+	+
Ammonium Hydrogen Fluoride	(NH <sub>4</sub> )HF <sub>2</sub>	50			20	o	o	-	+	+	+	-	+	+
Ammonium Hydrogen Fluoride	(NH <sub>4</sub> )HF <sub>2</sub>	50			40	-	o	-	+	+	o	-	-	+
Ammonium Hydrogen Fluoride	(NH <sub>4</sub> )HF <sub>2</sub>	50			60	-	o	-	+	+	o	-	-	+
Ammonium Monophosphate	See Ammonium Phosphate													
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	10			20	+	+	+	+	+	+	+	+	+
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	10			40	+	+	+	+	+	+	+	+	+
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	10			60	+	+	+	+	+	+	o	+	+

# Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	50	1,23		20	+	+	+	+	+	+	+	+	+
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	50			40	+	+	+	+	+	+	+	+	+
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	50			60	+	+	+	+	+	+	o	+	+
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	GL			20	+	+	+	+	+	+	+	+	+
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	GL			40	+	+	+	+	+	+	+	+	+
Ammonium Nitrate	NH <sub>4</sub> NO <sub>3</sub> +H <sub>2</sub> O	GL			60	+	+	+	+	+	+	o	+	+
Ammonium Oxalate	(COONH <sub>4</sub> ) <sub>2</sub> + H <sub>2</sub> O	TR	1,50		20	+	+	+	+	+	+	+	+	+
Ammonium Oxalate	(COONH <sub>4</sub> ) <sub>2</sub> + H <sub>2</sub> O	TR			40	+	+	+	o	+	+	+	+	+
Ammonium Oxalate	(COONH <sub>4</sub> ) <sub>2</sub> + H <sub>2</sub> O	TR			60	+	+	+	o	+	+	+	o	+
Ammonium Perchlorate	NH <sub>4</sub> ClO <sub>4</sub> +H <sub>2</sub> O	14	1,07		20	+	+	+	o	+	+	o	o	+
Ammonium Perchlorate	NH <sub>4</sub> ClO <sub>4</sub> +H <sub>2</sub> O	14			40	o	+	o	o	+	+	-	o	+
Ammonium Perchlorate	NH <sub>4</sub> ClO <sub>4</sub> +H <sub>2</sub> O	14			60	o	o	-	o	+	+	-	o	+
Ammonium Phosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> +H <sub>2</sub> O	10			20	+	+	-	+	+	+	+	+	+
Ammonium Phosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> +H <sub>2</sub> O	10			40	+	+	-	+	+	+	+	+	+
Ammonium Phosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> +H <sub>2</sub> O	10			60	+	+	-	+	+	+	o	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	10			20	+	+	+	+	+	+	+	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	10			40	+	+	o	+	+	+	+	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	10			60	+	+	o	+	+	+	o	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	50	1,28		20	+	+	+	+	+	+	+	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	50			40	+	+	o	+	+	+	+	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	50			60	+	+	o	+	+	+	o	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	GL	1,30		20	+	+	+	+	+	+	+	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	GL			40	+	+	o	+	+	+	+	+	+
Ammonium Sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O	GL			60	+	+	-	+	+	+	o	+	+
Ammonium Sulphide	NH <sub>4</sub> S+H <sub>2</sub> O	10			20	+	+	-	+	+	+	+	+	+
Ammonium Sulphide	NH <sub>4</sub> S+H <sub>2</sub> O	10			40	+	+	-	+	+	+	o	+	+
Ammonium Sulphide	NH <sub>4</sub> S+H <sub>2</sub> O	10			60	+	+	-	+	+	+	o	+	+
Amyl Acetate	CH <sub>3</sub> -COOC <sub>5</sub> H <sub>11</sub>	TR	0,88	All	20	+	+	+	o	+	-	-	o	+
Amyl Acetate	CH <sub>3</sub> -COOC <sub>5</sub> H <sub>11</sub>	TR			40	+	+	+	-	o	-	-	-	+
Amyl Acetate	CH <sub>3</sub> -COOC <sub>5</sub> H <sub>11</sub>	TR			60	+	+	+	-	o	-	-	-	+
Amyl Alcohol	C <sub>5</sub> H <sub>11</sub> OH	TR	0,82	All	20	+	+	+	+	+	+	+	+	+
Amyl Alcohol	C <sub>5</sub> H <sub>11</sub> OH	TR			40	+	+	o	+	+	+	o	+	+
Amyl Alcohol	C <sub>5</sub> H <sub>11</sub> OH	TR			60	+	+	o	+	+	o	o	+	+
Amyl Chloride	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> Cl	TR	0,87	AI	20	o	+	-	+	+	+	o	+	+
Amyl Chloride	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> Cl	TR			40	-	+	-	o	+	+	o	+	+
Amyl Chloride	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> Cl	TR			60	-	o	-	o	+	o	o	o	+
Aniline	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	TR	1,01	All	20	+	+	+	o	+	+	-	o	+
Aniline	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	TR			40	+	+	+	-	o	o	-	-	+
Aniline	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	TR			60	+	+	+	-	o	o	-	-	+
Anone	See Cyclohexanone													
Aqua Regia	3HCl+HNO <sub>3</sub>				20	-	-	-	-	o	o	-	o	+
Aqua Regia	3HCl+HNO <sub>3</sub>				40	-	-	-	-	-	-	-	-	+
Aqua Regia	3HCl+HNO <sub>3</sub>				60	-	-	-	-	-	-	-	-	+
Arsenic Acid	H <sub>3</sub> ASO <sub>4</sub>	10			20	+	+	-	+	+	+	+	+	+
Arsenic Acid	H <sub>3</sub> ASO <sub>4</sub>	10			40	+	+	-	+	+	+	+	+	+
Arsenic Acid	H <sub>3</sub> ASO <sub>4</sub>	10			60	+	+	-	+	+	+	+	+	+
Arsenic Acid	H <sub>3</sub> ASO <sub>4</sub>	80			20	+	+	-	+	+	+	+	+	+
Arsenic Acid	H <sub>3</sub> ASO <sub>4</sub>	80			40	+	+	-	+	+	+	+	+	+
Arsenic Acid	H <sub>3</sub> ASO <sub>4</sub>	80			60	+	+	-	+	+	+	+	+	+

## Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Barium Chloride	BaCl <sub>2</sub>	10			20	-	+	o	+	+	+	+	+	+
Barium Chloride	BaCl <sub>2</sub>	10			40	-	+	o	+	+	+	+	+	+
Barium Chloride	BaCl <sub>2</sub>	25	1,27		20	o	+	o	+	+	+	+	+	+
Barium Chloride	BaCl <sub>2</sub>	25			40	o	+	o	+	+	+	+	+	+
Barium Hydroxide	Ba(OH) <sub>2</sub>	GL			20	+	+	-	+	+	+	+	+	+
Barium Hydroxide	Ba(OH) <sub>2</sub>	GL			40	+	+	-	+	+	+	+	+	+
Barium Hydroxide	Ba(OH) <sub>2</sub>	GL			60	+	+	-	+	o	+	+	+	+
Barium Sulphide	BaS	10			20	+	+	+	+	+	+	+	+	+
Benzaldehyde	C <sub>6</sub> H <sub>5</sub> CHO		1,05		20	+	+	+	o	+	+	o	o	+
Benzaldehyde	C <sub>6</sub> H <sub>5</sub> CHO				40	+	+	+	o	o	+	o	o	+
Benzaldehyde	C <sub>6</sub> H <sub>5</sub> CHO				60	+	+	+	-	o	+	o	o	+
Benzaldehyde	C <sub>6</sub> H <sub>5</sub> CHO	30			20	+	+	o	-	+	+	-	-	+
Benzaldehyde	C <sub>6</sub> H <sub>5</sub> CHO	TR	1,05	AIII	20	+	+	o	o	+	o	-	o	+
Benzene	C <sub>6</sub> H <sub>6</sub>	TR	0,88	AI	20	+	+	+	-	+	+	-	-	+
Benzoic Acid	C <sub>6</sub> H <sub>5</sub> COOH	10	1,27		20	+	+	+	+	+	+	-	-	+
Benzoic Acid	C <sub>6</sub> H <sub>5</sub> COOH	10			40	+	+	o	+	+	+	-	-	+
Benzoic Acid	C <sub>6</sub> H <sub>5</sub> COOH	10			60	+	+	o	o	+	+	-	-	+
Benzyl Alcohol	C <sub>6</sub> H <sub>5</sub> -CH <sub>2</sub> OH	TR	1,04		20	+	+	+	+	+	o	-	+	+
Benzyl Alcohol	C <sub>6</sub> H <sub>5</sub> -CH <sub>2</sub> OH	TR			40	+	+	+	+	+	o	-	o	+
Benzyl Alcohol	C <sub>6</sub> H <sub>5</sub> -CH <sub>2</sub> OH	TR			60	+	+	+	o	+	o	-	o	+
Benzyl Chloride	C <sub>6</sub> H <sub>5</sub> -CH <sub>2</sub> Cl		1,11	AIII	20	+	+	-	-	+	+	-	-	+
Benzyl Chloride	C <sub>6</sub> H <sub>5</sub> -CH <sub>2</sub> Cl				40	+	+	-	-	+	+	-	-	+
Benzyl Chloride	C <sub>6</sub> H <sub>5</sub> -CH <sub>2</sub> 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 <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10 H <sub>2</sub> O	10	1,03		20	+	+	-	+	+	+	+	+	+
Borax	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10 H <sub>2</sub> O	10			40	+	+	-	+	+	+	+	+	+
Borax	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10 H <sub>2</sub> O	10			60	+	+	-	+	+	+	+	+	+
Borax	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10 H <sub>2</sub> O	GL			20	+	+	-	+	+	+	+	+	+
Borax	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10 H <sub>2</sub> O	GL			40	+	+	-	+	+	+	+	+	+
Borax	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> +10 H <sub>2</sub> O	GL			60	+	+	-	+	+	+	+	+	+
Boric Acid	H <sub>3</sub> BO <sub>3</sub> +H <sub>2</sub> O	10	1,01		20	+	+	+	+	+	+	+	+	+
Boric Acid	H <sub>3</sub> BO <sub>3</sub> +H <sub>2</sub> O	10			40	+	+	+	+	+	+	+	+	+
Boric Acid	H <sub>3</sub> BO <sub>3</sub> +H <sub>2</sub> O	10			60	+	+	+	+	+	+	+	+	+
Boric Acid	H <sub>3</sub> BO <sub>3</sub> +H <sub>2</sub> O	GL			20	+	+	-	+	+	+	+	+	+
Boric Acid	H <sub>3</sub> BO <sub>3</sub> +H <sub>2</sub> O	GL			40	+	+	-	+	+	+	+	+	+
Boric Acid	H <sub>3</sub> BO <sub>3</sub> +H <sub>2</sub> O	GL			60	+	+	-	+	+	+	+	+	+
Boron Trifluoride	BF <sub>3</sub> +H <sub>2</sub> O	10			20	o	o	-	+	+	+	+	+	+
Brake Fluid	Glycol Ether					+	+	+	+	+	-	-	+	+
Bromic Acid	HBrO <sub>3</sub>	10			20	o	+	-	+	+	+	-	+	+
Bromic Acid	HBrO <sub>3</sub>	10			40	-	+	-	+	+	+	-	+	+
Bromic Acid	HBrO <sub>3</sub>	10			60	-	+	-	o	+	+	-	o	+
Bromine	Br <sub>2</sub>	TR	3,19		20	-	+	-	-	+	o	-	-	+
Butane Carbonic Acid	See Butyric Acid													
Butane Diol	HO(CH <sub>2</sub> ) <sub>4</sub> OH	10			20	+	+	+	+	+	+	+	+	+
Butane Diol	HO(CH <sub>2</sub> ) <sub>4</sub> OH	10			40	+	+	+	+	+	+	+	+	+
Butane Diol	HO(CH <sub>2</sub> ) <sub>4</sub> OH	10			60	+	+	+	+	+	+	+	+	+
Butane Diol	HO(CH <sub>2</sub> ) <sub>4</sub> OH	TR			20	+	+	+	o	+	+	-	+	+

TR = technically pure, GL = saturated solution, H = commercial composition  
+ = resistant, o = limited resistance, - = not resistant



**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Butane Diol	HO(CH <sub>2</sub> ) <sub>4</sub> OH	TR			40	+	+	o	o	+	+	-	+	+
Butane Diol	HO(CH <sub>2</sub> ) <sub>4</sub> OH	TR			60	+	+	-	o	+	o	-	+	+
Butane Triol	C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>	TR			20	+	+	-	+	+	o	+	+	+
Butanol	C <sub>4</sub> H <sub>9</sub> OH	TR	0,81	All	20	+	+	+	+	+	+	+	+	+
Butanol	C <sub>4</sub> H <sub>9</sub> OH	TR			40	+	+	+	o	+	o	+	+	+
Butanol	C <sub>4</sub> H <sub>9</sub> OH	TR			60	+	+	+	o	+	o	+	+	+
Butanone (MEK)	C <sub>4</sub> H <sub>8</sub> O	TR	0,81	AI	20	+	+	-	+	-	-	-	+	+
Butanone (MEK)	C <sub>4</sub> H <sub>8</sub> O	TR			40	+	+	-	o	-	-	-	o	+
Butanone (MEK)	C <sub>4</sub> H <sub>8</sub> O	TR			60	+	+	-	o	-	-	-	o	+
Butenal, trans-2-	See Propylene Aldehyde													
Butyl Acetate	C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	TR	0,88	All	20	+	+	+	o	+	o	-	+	+
Butyl Acrylate	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	TR		AI	20	+	+	o	-	o	-	-	o	+
Butyl Alcohol	See Butanol													
Butyl Chloride	C <sub>4</sub> H <sub>9</sub> Cl	TR	0,89	AI	20	o	+	-	+	+	-	-	-	+
Butyl Chloride	C <sub>4</sub> H <sub>9</sub> Cl	TR			40	o	+	-	+	+	-	-	-	+
Butyl Chloride	C <sub>4</sub> H <sub>9</sub> Cl	TR			60	o	+	-	+	+	-	-	-	+
Butyl Ether	See Dibutyl Ether													
Butyl Phenol	HOC <sub>6</sub> H <sub>4</sub> C(CH <sub>3</sub> ) <sub>3</sub>	TR			20	+	+	-	+	+	o	-	-	+
Butyric Acid	C <sub>3</sub> H <sub>7</sub> COOH	20	0,88		20	+	+	+	-	+	+	-	+	+
Butyric Acid	C <sub>3</sub> H <sub>7</sub> COOH	TR	0,96		20	+	+	+	-	+	o	-	o	+
Calcium Bisulphite	Ca(HSO <sub>3</sub> ) <sub>2</sub>	10			20	+	+	o	+	+	+	-	+	+
Calcium Bisulphite	Ca(HSO <sub>3</sub> ) <sub>2</sub>	GL			20	+	+	o	+	+	+	-	+	+
Calcium Bisulphite	Ca(HSO <sub>3</sub> ) <sub>2</sub>	GL			40	+	+	o	+	+	+	-	+	+
Calcium Bisulphite	Ca(HSO <sub>3</sub> ) <sub>2</sub>	GL			60	+	+	o	+	+	+	-	+	+
Calcium Chlorate	CaClO <sub>3</sub> +H <sub>2</sub> O	10			20	+	+	o	+	+	+	+	+	+
Calcium Chloride	CaCl <sub>2</sub> +H <sub>2</sub> O	10			20	+	+	+	+	+	+	+	+	+
Calcium Chloride	CaCl <sub>2</sub> +H <sub>2</sub> O	10			40	+	+	+	+	+	+	+	+	+
Calcium Chloride	CaCl <sub>2</sub> +H <sub>2</sub> O	10			60	o	o	+	+	+	+	+	+	+
Calcium Chloride	CaCl <sub>2</sub> +H <sub>2</sub> O	GL	1,40		20	+	+	o	+	+	+	+	+	+
Calcium Chloride	CaCl <sub>2</sub> +H <sub>2</sub> O	GL			40	+	+	o	+	+	+	+	+	+
Calcium Chloride	CaCl <sub>2</sub> +H <sub>2</sub> O	GL			60	o	+	o	+	+	+	+	+	+
Calcium Hydroxide	Ca(OH) <sub>2</sub>	15			20	+	+	-	+	+	+	+	+	+
Calcium Hydroxide	Ca(OH) <sub>2</sub>	15			40	+	+	-	+	+	+	+	+	+
Calcium Hydroxide	Ca(OH) <sub>2</sub>	15			60	+	+	-	+	+	+	o	+	+
Calcium Hypochlorite	Ca(OCl) <sub>2</sub>	10			20	o	+	-	+	+	+	+	+	+
Calcium Hypochlorite	Ca(OCl) <sub>2</sub>	10			40	o	+	-	+	+	+	o	+	+
Calcium Hypochlorite	Ca(OCl) <sub>2</sub>	10			60	-	o	-	+	+	+	-	+	+
Calcium Nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub>	50	1,48		20	+	+	+	+	+	+	+	+	+
Calcium Nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub>	50			40	+	+	+	+	+	+	+	+	+
Camphor	C <sub>10</sub> H <sub>16</sub> O				20	+	+	+	+	+	o	+	o	+
Camphor	C <sub>10</sub> H <sub>16</sub> O				40	+	+	+	+	+	o	o	o	+
Camphor	C <sub>10</sub> H <sub>16</sub> O				60	+	+	+	+	+	o	o	o	+
Caprylic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> COOH		0,92		20	+	+	-	+	+	+	-	+	+
Caprylic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> COOH				40	+	+	-	o	+	+	-	o	+
Caprylic Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> COOH				60	+	+	-	-	+	o	-	-	+
Carbamide	See Urea													
Carbolic Acid	See Phenol													
Carbon Bisulphide	CS <sub>2</sub>	TR	1,27	AI	20	+	+	+	+	+	+	-	o	+
Carbon Bisulphide	CS <sub>2</sub>	TR			40	+	+	+	o	+	+	-	-	+
Carbon Bisulphide	CS <sub>2</sub>	TR			60	+	+	+	o	+	+	-	-	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class [VbF]	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/PEP
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 <sub>3</sub>	10			20	o	+	-	+	+	+	-	+	+
Chloric Acid	HClO <sub>3</sub>	10			40	o	o	-	+	+	+	-	+	+
Chloric Acid	HClO <sub>3</sub>	10			60	o	o	-	o	+	+	-	+	+
Chlorinated Diphenyl	C <sub>12</sub> H <sub>9</sub> Cl	TR			20	+	+	+	-	+	+	-	-	+
Chlorine Bleaching						See Sodium Hypochlorite								
Chlorine Water	Cl <sub>2</sub> + H <sub>2</sub> O	GL			20	o	+	-	o	+	-	-	+	+
Chlorine Water	Cl <sub>2</sub> + H <sub>2</sub> O	GL			40	o	+	-	o	+	-	-	+	+
Chlorine Water	Cl <sub>2</sub> + H <sub>2</sub> O	GL			60	o	o	-	o	+	-	-	o	+
Chloroacetic Acid	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	85	1,36		20	-	+	-	+	+	+	-	+	+
Chloroacetic Acid	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	85			40	-	o	-	+	+	+	-	+	+
Chloroacetic Acid	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	85			60	-	o	-	+	+	+	-	+	+
Chloroacetic Acid	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	98			20	-	+	-	+	+	+	-	+	+
Chloroacetic Acid	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	98			40	-	o	-	+	+	+	-	+	+
Chloroacetic Acid	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	98			60	-	o	-	+	+	+	-	+	+
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	TR	1,11	All	20	+	+	+	o	+	+	-	-	+
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	TR			40	+	+	+	o	+	-	-	-	+
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	TR			60	+	+	+	-	+	-	-	-	+
Chlorobutane						See Butyl Chloride								
Chloroethane	C <sub>2</sub> H <sub>5</sub> Cl	TR	0,92		20	+	+	+	-	+	o	-	o	+
Chloroethanol	ClH <sub>2</sub> C-CH <sub>2</sub> OH	TR	1,20		20	+	+	-	+	+	-	+	o	+
Chloroethanol	ClH <sub>2</sub> C-CH <sub>2</sub> OH	TR			40	+	+	-	+	o	-	o	o	+
Chloroethanol	ClH <sub>2</sub> C-CH <sub>2</sub> OH	TR			60	+	+	-	+	o	-	-	o	+
Chloroethene						See Trichloreethane								
Chloroform	CHCl <sub>3</sub>	TR	1,48		20	+	+	-	o	+	o	-	-	+
Chlorosulphonic Acid	HOSO <sub>2</sub> Cl	TR	1,77		20	+	+	-	-	-	o	-	-	+
Chlorotoluene						See Benzyl Chloride								
Chromic Acid	CrO <sub>3</sub> +H <sub>2</sub> O	30			20	o	+	-	o	+	+	-	-	+
Chromic Acid	CrO <sub>3</sub> +H <sub>2</sub> O	50			20	o	o	-	-	+	+	-	-	+
Chromic Acid	CrO <sub>3</sub> +H <sub>2</sub> O	50			40	o	o	-	-	+	+	-	-	+
Chromic Acid	CrO <sub>3</sub> +H <sub>2</sub> O	50			60	o	o	-	-	+	+	-	-	+
Chromic-Sulphuric-Acid-Mixture	H <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O+CrO <sub>3</sub>	50			20	o	o	-	o	+	+	-	-	+
Chromic-Sulphuric-Acid-Mixture	H <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O+CrO <sub>3</sub>	50			40	o	o	-	-	+	+	-	-	+
Chromic-Sulphuric-Acid-Mixture	H <sub>2</sub> SO <sub>4</sub> +H <sub>2</sub> O+CrO <sub>3</sub>	50			60	o	o	-	-	+	+	-	-	+
Chromium Trioxide						See Chromic Acid								
Citric Acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	50	1,22		20	+	+	-	+	+	+	+	+	+
Citric Acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	50			40	o	+	-	+	+	+	+	+	+
Citric Acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	50			60	o	+	-	+	+	+	+	+	+
Clophene						See Chlorinated Diphenyl								
Clove Oil						See Essential Oils								
Copper Acetate	(CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> Cu	50			20	+	+	-	+	+	+	+	+	+
Copper Acetate	(CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> Cu	50			40	+	+	-	+	+	+	+	+	+
Copper Acetate	(CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> Cu	50			60	+	+	-	+	+	+	o	+	+

<div> <div>AlphaDynamic</div> <div>PUMPS</div> </div> <div>Resistance Chart</div>		Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/PEP
Description	Chemical Formula													
Copper Nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub>	25	1,25		20	+	+	+	o	+	+	+	+	+
Copper Nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub>	25			40	+	+	+	o	+	+	+	+	+
Copper Nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub>	25			60	+	+	+	o	+	+	o	+	+
Copper Sulphate	CuSO <sub>4</sub>	18	1,21		20	+	+	-	+	+	+	+	+	+
Copper Sulphate	CuSO <sub>4</sub>	18			40	+	+	-	+	+	+	+	+	+
Copper Sulphate	CuSO <sub>4</sub>	18			60	+	+	-	+	+	+	+	+	+
Copper Sulphate	CuSO <sub>4</sub>	GL			20	+	+	-	o	+	+	+	+	+
Copper Sulphate	CuSO <sub>4</sub>	GL			40	+	+	-	o	+	+	+	+	+
Copper Sulphate	CuSO <sub>4</sub>	GL			60	+	+	-	o	+	+	o	+	+
Corn Oil		TR			20	+	+	-	+	+	+	+	+	+
Corn Oil		TR			40	+	+	-	+	+	+	+	o	+
Corn Oil		TR			60	+	+	-	o	+	+	+	-	+
Crotonaldehyde	See Propylenaldehyd													
Cupric Chloride	CuCl <sub>2</sub>	20	1,21		20	o	+	-	+	+	+	+	+	+
Cupric Chloride	CuCl <sub>2</sub>	20			40	o	+	-	+	+	+	+	+	+
Cupric Chloride	CuCl <sub>2</sub>	20			60	o	+	-	+	+	+	+	+	+
Cuprous Chloride	CuCl	10			20	o	+	-	+	+	+	+	+	+
Cuprous Chloride	CuCl	10			40	o	+	-	+	+	+	+	+	+
Cuprous Chloride	CuCl	10			60	o	+	-	+	+	+	+	+	+
Cyclohexane	C <sub>6</sub> H <sub>12</sub>	TR	0,78	AI	20	+	+	+	+	+	+	+	-	+
Cyclohexane	C <sub>6</sub> H <sub>12</sub>	TR			40	+	+	+	+	+	+	+	-	+
Cyclohexane	C <sub>6</sub> H <sub>12</sub>	TR			60	+	+	+	o	+	o	-	-	+
Cyclohexanol	C <sub>6</sub> H <sub>12</sub> O	TR	0,94	AIll	20	+	+	-	+	+	o	o	o	+
Cyclohexanol	C <sub>6</sub> H <sub>12</sub> O	TR			40	+	+	-	+	+	o	o	o	+
Cyclohexanone	C <sub>6</sub> H <sub>10</sub> O	TR	0,95	All	20	+	+	+	+	+	-	-	o	+
Decahydronaphtalin	See Decaline													
Decaline	C <sub>10</sub> H <sub>18</sub>	TR	0,88	AIll	20	+	+	+	o	+	+	o	-	+
Decaline	C <sub>10</sub> H <sub>18</sub>	TR			40	+	+	+	o	+	+	o	-	+
Decaline	C <sub>10</sub> H <sub>18</sub>	TR			60	+	+	+	o	+	+	o	-	+
Dextrine	C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> +H <sub>2</sub> O	18			20	+	+	+	+	+	+	+	+	+
Dextrine	C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> +H <sub>2</sub> O	18			40	+	+	+	+	+	+	o	+	+
Dextrine	C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> +H <sub>2</sub> O	18			60	+	+	+	+	+	+	o	+	+
Dextrine	C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> +H <sub>2</sub> O	GL			20	+	+	+	+	+	+	+	+	+
Diacetone Alcohol	(CH <sub>3</sub> ) <sub>2</sub> C(OH)CH <sub>2</sub> COCH <sub>3</sub>	TR		B	20	+	+	-	-	+	+	-	+	+
Diacetone Alcohol	(CH <sub>3</sub> ) <sub>2</sub> C(OH)CH <sub>2</sub> COCH <sub>3</sub>	TR			40	+	+	-	-	+	+	-	+	+
Diacetone Alcohol	(CH <sub>3</sub> ) <sub>2</sub> C(OH)CH <sub>2</sub> COCH <sub>3</sub>	TR			60	+	+	-	-	+	+	-	+	+
Diamide	See Hydrazine													
Dibromoethane	See Ethylene Bromide													
Dibutyl Ether	C <sub>8</sub> H <sub>18</sub> O	TR	0,77	All	20	+	+	-	o	+	-	+	o	+
Dibutyl Ether	C <sub>8</sub> H <sub>18</sub> O	TR			40	+	+	-	-	+	-	o	o	+
Dibutyl Ether	C <sub>8</sub> H <sub>18</sub> O	TR			60	+	+	-	-	+	-	-	o	+
Dibutyl Phthalate	C <sub>6</sub> H <sub>4</sub> (CO <sub>2</sub> C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	TR	1,05		20	+	+	+	+	+	o	-	o	+
Dibutyl Phthalate	C <sub>6</sub> H <sub>4</sub> (CO <sub>2</sub> C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	TR			40	+	+	+	o	+	-	-	-	+
Dibutyl Phthalate	C <sub>6</sub> H <sub>4</sub> (CO <sub>2</sub> C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	TR			60	+	+	+	o	o	-	-	-	+
Dibutyl Sebacate	C <sub>18</sub> H <sub>34</sub> O <sub>4</sub>	TR	0,94		20	+	+	-	+	+	o	-	-	+
Dibutyl Sebacate	C <sub>18</sub> H <sub>34</sub> O <sub>4</sub>	TR			40	+	+	-	+	+	o	-	-	+
Dibutyl Sebacate	C <sub>18</sub> H <sub>34</sub> O <sub>4</sub>	TR			60	+	+	-	+	+	o	-	-	+
Dicapric Acid	See Adipic Acid													
Dichloro Acetic Acid	CHCl <sub>2</sub> CO <sub>2</sub> H	TR	1,56		20	-	+	-	+	+	o	-	+	+
Dichloro Acetic Acid	CHCl <sub>2</sub> CO <sub>2</sub> H	TR			40	-	o	-	+	+	o	-	+	+

TR = technically pure, GL = saturated solution, H = commercial composition  
 + = resistant, o = limited resistance, - = not resistant

## Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Dichloro Acetic Acid	CHCl <sub>2</sub> CO <sub>2</sub> H	TR			60	-	o	-	o	+	-	-	o	+
Dichlorodifluorine-Methane	CF <sub>2</sub> Cl <sub>2</sub>	TR	1,32		20	+	+	-	-	+	o	o	o	+
Dichloroethane			See Chloroethane											
Dichloroethylene 1,1	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	TR	1,22	AI	20	+	+	-	o	+	+	+	-	+
Dichloroethylene 1,1	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	TR			40	+	+	-	o	+	+	+	-	+
Dichloroethylene 1,1	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	TR			60	+	+	-	o	+	+	+	-	+
Dichloromethane			See Methylene Chloride											
Diesel Fuel		H		AIII	20	+	+	+	o	+	+	+	-	+
Diesel Fuel		H			40	+	+	+	o	+	+	+	-	+
Diesel Fuel		H			60	+	+	+	-	+	+	+	-	+
Diethanolamine	HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub>		1,10		20	+	+	-	+	o	o	-	+	+
Diethanolamine	HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub>				40	+	+	-	+	o	o	-	+	+
Diethanolamine	HN(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub>				60	+	+	-	+	-	o	-	+	+
Diethyl Ether			See Ether											
Diethylamine	C <sub>4</sub> H <sub>11</sub> N	10	0,70	B	20	+	+	+	+	o	-	-	+	+
Diethylcellosolve			See Ethyl Glycol											
Diethylene Oxide			See Tetrahydrofuran											
Diglycolic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	30			20	+	+	-	+	+	+	o	+	+
Diglycolic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	30			40	+	+	-	+	+	+	o	o	+
Diglycolic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	30			60	+	+	-	+	+	+	o	o	+
Diglycolic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	GL			20	+	+	-	+	+	+	o	+	+
Diisobutyl Ketone	C <sub>9</sub> H <sub>18</sub> O	TR			20	+	+	-	+	+	+	-	+	+
Diisobutyl Ketone	C <sub>9</sub> H <sub>18</sub> O	TR			40	+	+	-	+	+	-	-	+	+
Diisobutyl Ketone	C <sub>9</sub> H <sub>18</sub> O	TR			60	+	+	-	+	+	-	-	+	+
Diisopropyl Ether			See Isopropyl Ether											
Dimethyl Benzene			See Xylene											
Dimethyl Formamide (DMF)	C <sub>3</sub> H <sub>7</sub> NO	TR	0,95		20	+	+	-	+	-	-	o	+	+
Dimethyl Formamide (DMF)	C <sub>3</sub> H <sub>7</sub> NO	TR			40	+	+	-	+	-	-	-	+	+
Dimethyl Formamide (DMF)	C <sub>3</sub> H <sub>7</sub> NO	TR			60	+	+	-	+	-	-	-	+	+
Dimethyl Phthalate (DMP)	C <sub>6</sub> H <sub>4</sub> (COOCH <sub>3</sub> ) <sub>2</sub>	TR			20	+	+	-	+	+	-	-	-	+
Dimethyl Phthalate (DMP)	C <sub>6</sub> H <sub>4</sub> (COOCH <sub>3</sub> ) <sub>2</sub>	TR			40	+	+	-	+	+	-	-	-	+
Dimethyl Phthalate (DMP)	C <sub>6</sub> H <sub>4</sub> (COOCH <sub>3</sub> ) <sub>2</sub>	TR			60	+	+	-	+	+	-	-	-	+
Dimethylamine	(CH <sub>3</sub> ) <sub>2</sub> NH	TR	0,73		20	+	+	-	+	o	o	-	o	+
Dinonyl Phthalate	C <sub>26</sub> H <sub>42</sub> O <sub>4</sub>	TR			20	+	+	-	+	+	-	-	-	+
Dinonyl Phthalate	C <sub>26</sub> H <sub>42</sub> O <sub>4</sub>	TR			30	+	+	-	+	+	-	-	-	+
Diocetyl Phthalate	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	TR			20	+	+	-	o	+	+	-	-	+
Diocetyl Phthalate	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	TR			40	+	+	-	o	+	+	-	-	+
Diocetyl Phthalate	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	TR			60	+	+	-	o	o	+	-	-	+
Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	TR	1,03	B	20	+	+	+	-	+	-	o	+	+
Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	TR			40	+	+	+	-	o	-	-	+	+
Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	TR			60	+	+	+	-	-	-	-	+	+
DMF			See Dimethyl Formamide											
DMP			See Dimethyl Phthalate											
Eau de Javel			See Sodium Hypochlorite											
Epichlorhydrine	H <sub>2</sub> C-O-CH-CH <sub>2</sub> Cl			All	20	o	+	-	+	+	-	-	-	+
Epichlorhydrine	H <sub>2</sub> C-O-CH-CH <sub>2</sub> Cl				40	o	+	-	+	+	-	-	-	+
Epichlorhydrine	H <sub>2</sub> C-O-CH-CH <sub>2</sub> Cl				60	o	+	-	+	+	-	-	-	+
Essential Oils					20	+	+	+	+	+	+	-	-	+
Essential Oils					40	+	+	+	+	+	o	-	-	+
Essential Oils					60	+	+	+	+	+	-	-	-	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/PEP
Ethanal	See Acetaldehyde													
Ethane Dicarboxylic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	50	1,06		20	+	+	-	+	+	+	+	+	+
Ethane Dicarboxylic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	50			40	+	+	-	+	+	+	+	+	+
Ethane Dicarboxylic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	50			60	+	+	-	+	+	+	+	+	+
Ethanol	CH <sub>3</sub> -CH <sub>2</sub> -OH	TR	0,79	B	20	+	+	+	+	+	+	+	+	+
Ethanol	CH <sub>3</sub> -CH <sub>2</sub> -OH	TR			40	+	+	+	+	+	o	+	+	+
Ethanol	CH <sub>3</sub> -CH <sub>2</sub> -OH	TR			60	+	+	+	+	+	o	+	+	+
Ether	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	TR	0,71	AI	20	+	+	+	-	+	o	o	o	+
Ethyl Acetate	H <sub>3</sub> C-COOC <sub>2</sub> H <sub>5</sub>	TR	0,90	AI	20	+	+	+	o	o	-	-	o	+
Ethyl Acetate	H <sub>3</sub> C-COOC <sub>2</sub> H <sub>5</sub>	TR			40	+	+	+	-	o	-	-	o	+
Ethyl Acetate	H <sub>3</sub> C-COOC <sub>2</sub> H <sub>5</sub>	TR			60	+	+	+	-	o	-	-	-	+
Ethyl Alcohol	See Ethanol													
Ethyl Benzene	C <sub>6</sub> H <sub>5</sub> -C <sub>2</sub> H <sub>5</sub>	TR	0,87	All	20	+	+	+	o	+	o	-	-	+
Ethyl Benzene	C <sub>6</sub> H <sub>5</sub> -C <sub>2</sub> H <sub>5</sub>	TR			40	+	+	+	-	+	-	-	-	+
Ethyl Benzene	C <sub>6</sub> H <sub>5</sub> -C <sub>2</sub> H <sub>5</sub>	TR			60	+	+	+	-	+	-	-	-	+
Ethyl Chloracetate	CH <sub>2</sub> C-CO-OC <sub>2</sub> H <sub>5</sub>			All	20	o	+	-	+	o	-	-	+	+
Ethyl Chloracetate	CH <sub>2</sub> C-CO-OC <sub>2</sub> H <sub>5</sub>				40	o	+	-	+	o	-	-	+	+
Ethyl Chloracetate	CH <sub>2</sub> C-CO-OC <sub>2</sub> H <sub>5</sub>				60	o	+	-	+	o	-	-	+	+
Ethyl Chloride	See Chloroethane													
Ethyl Dichloride	H <sub>3</sub> C-CHCl <sub>2</sub>		1,20	AI	20	+	+	+	o	+	+	o	o	+
Ethyl Dichloride	H <sub>3</sub> C-CHCl <sub>2</sub>				40	+	+	+	o	+	+	-	o	+
Ethyl Dichloride	H <sub>3</sub> C-CHCl <sub>2</sub>				60	+	+	+	-	+	o	-	-	+
Ethyl Ether	See Ether													
Ethyl Fluid	See Lead Tetraethyl													
Ethyl Glycol	C <sub>2</sub> H <sub>5</sub> -O-CH <sub>2</sub> -HC <sub>2</sub> OH	TR	0,93	All	20	+	+	-	-	+	+	+	-	+
Ethyl Glycol	C <sub>2</sub> H <sub>5</sub> -O-CH <sub>2</sub> -HC <sub>2</sub> OH	TR			40	+	+	-	-	+	+	+	-	+
Ethyl Glycol	C <sub>2</sub> H <sub>5</sub> -O-CH <sub>2</sub> -HC <sub>2</sub> OH	TR			60	+	+	-	-	+	+	+	-	+
Ethylene Bromide	CH <sub>2</sub> Br-CH <sub>2</sub> Br	TR	2,18		20	+	+	+	+	o	+	o	o	+
Ethylene Bromide	CH <sub>2</sub> Br-CH <sub>2</sub> Br	TR			40	+	+	+	o	o	+	-	o	+
Ethylene Bromide	CH <sub>2</sub> Br-CH <sub>2</sub> Br	TR			60	+	+	+	-	o	o	-	-	+
Ethylene Chlorhydrine	See Chloroethanol													
Ethylene Diamine	H <sub>2</sub> N-CH <sub>2</sub> -CH <sub>2</sub> -NH <sub>2</sub>	TR	0,98		20	+	+	+	+	+	o	o	+	+
Ethylene Diamine	H <sub>2</sub> N-CH <sub>2</sub> -CH <sub>2</sub> -NH <sub>2</sub>	TR			40	+	+	+	+	+	o	o	+	+
Ethylene Diamine	H <sub>2</sub> N-CH <sub>2</sub> -CH <sub>2</sub> -NH <sub>2</sub>	TR			60	+	+	+	+	+	-	-	+	+
Ethylene Dicarboxylic Acid	See Maleic Acid													
Ethylene Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	TR	1,11		20	+	+	+	+	+	+	+	+	+
Ethylene Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	TR			40	+	+	+	+	+	+	+	+	+
Ethylene Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	TR			60	+	+	+	+	+	+	+	+	+
Fatty Acids	C <sub>17</sub> H <sub>33</sub> CO <sub>2</sub> H	100	0,90		20	+	+	-	o	+	+	o	-	+
Fatty Acids	C <sub>17</sub> H <sub>33</sub> CO <sub>2</sub> H	100			40	+	+	-	o	+	+	-	-	+
Fatty Acids	C <sub>17</sub> H <sub>33</sub> CO <sub>2</sub> H	100			60	+	+	-	o	+	+	-	-	+
Ferric Sulphate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	50	1,61		20	+	+	-	+	+	+	+	+	+
Ferric Sulphate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	50			40	+	+	-	+	+	+	+	+	+
Ferric Sulphate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	50			60	+	+	-	+	+	+	+	+	+
Ferrichloride	FeCl <sub>3</sub> +H <sub>2</sub> O	50	1,55		20	-	+	-	+	+	+	+	+	+
Ferrichloride	FeCl <sub>3</sub> +H <sub>2</sub> O	50			40	-	o	-	+	+	+	+	+	+
Ferrichloride	FeCl <sub>3</sub> +H <sub>2</sub> O	50			60	-	-	-	+	+	+	+	+	+
Ferro	See Ferrous Nitrate													
Ferrochloride	FeCl <sub>2</sub> +H <sub>2</sub> O	10	1,09		20	+	+	-	+	+	+	+	+	+
Ferrochloride	FeCl <sub>2</sub> +H <sub>2</sub> O	10			40	o	+	-	+	+	+	+	+	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Ferrochloride	FeCl <sub>2</sub> +H <sub>2</sub> O	10			60	o	o	-	+	+	+	+	+	+
Ferrochloride	FeCl <sub>2</sub> +H <sub>2</sub> O	50			20	+	+	-	+	+	+	+	+	+
Ferrochloride	FeCl <sub>2</sub> +H <sub>2</sub> O	50			40	o	+	-	+	+	+	+	+	+
Ferrochloride	FeCl <sub>2</sub> +H <sub>2</sub> O	50			60	o	+	-	+	+	+	+	+	+
Ferrocyanide of Potassium	See Potassium Ferrocyanide													
Ferro-Gallic-Inc	See Ink													
Ferrosulphate	FeSO <sub>4</sub>	20	1,21		20	+	+	+	+	+	+	+	+	+
Ferrosulphate	FeSO <sub>4</sub>	20			40	+	+	+	+	+	+	+	+	+
Ferrosulphate	FeSO <sub>4</sub>	20			60	+	+	+	+	+	+	+	+	+
Ferrous Nitrate	Fe(NO <sub>3</sub> ) <sub>2</sub>	TR			20	+	+	-	+	+	+	+	+	+
Ferrous Nitrate	Fe(NO <sub>3</sub> ) <sub>2</sub>	TR			40	+	+	-	+	+	+	+	+	+
Ferrous Nitrate	Fe(NO <sub>3</sub> ) <sub>2</sub>	TR			60	+	+	-	+	+	+	+	+	+
Finger Nail Polish Remover	See Acetone													
Flourammon	See Ammonium Fluoride													
Formaldehyde	CH <sub>2</sub> O+H <sub>2</sub> O	10			20	+	+	-	+	+	+	+	+	+
Formaldehyde	CH <sub>2</sub> O+H <sub>2</sub> O	10			40	+	+	-	+	+	+	o	+	+
Formaldehyde	CH <sub>2</sub> O+H <sub>2</sub> O	10			60	+	+	-	+	+	+	-	+	+
Formaldehyde	CH <sub>2</sub> O+H <sub>2</sub> O	35	1,10	All	20	+	+	-	+	+	+	-	+	+
Formaldehyde	CH <sub>2</sub> O+H <sub>2</sub> O	40		All	20	+	+	-	+	+	+	o	+	+
Formalin	See Formaldehyde													
Formamide	HCONH <sub>2</sub>	100			20	+	+	+	+	+	o	+	+	+
Formamide	HCONH <sub>2</sub>	100			40	+	+	+	+	+	-	o	+	+
Formamide	HCONH <sub>2</sub>	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 <sub>5</sub> H <sub>6</sub> O <sub>2</sub>	TR	1,13	All	20	+	+	+	+	+	o	-	+	+
Furfuryl Alcohol	C <sub>5</sub> H <sub>6</sub> O <sub>2</sub>	TR			40	+	+	+	o	+	-	-	+	+
Furfuryl Alcohol	C <sub>5</sub> H <sub>6</sub> O <sub>2</sub>	TR			60	+	+	+	o	o	-	-	+	+
Gallic Acid	C <sub>6</sub> H <sub>2</sub> (OH) <sub>3</sub> CO <sub>2</sub> H	50			20	+	+	-	+	+	+	+	+	+
Gallotannic Acid	See Tannic Acid													
Glacial Acetic Acid	See Acetic Acid 100 %													
Glauber's Salt	See Sodium Sulphate													
Gluconic Acid	C <sub>6</sub> H <sub>12</sub> O <sub>7</sub>				20	+	+	-	+	+	+	+	+	+
Gluconic Acid	C <sub>6</sub> H <sub>12</sub> O <sub>7</sub>				40	+	+	-	+	+	+	+	+	+
Gluconic Acid	C <sub>6</sub> H <sub>12</sub> O <sub>7</sub>				60	+	+	-	+	+	+	o	+	+
Glucose	See Glucose solution													
Glucose Solution	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	GL	1,13		20	+	+	+	+	+	+	+	+	+
Glucose Solution	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	GL			40	+	+	+	+	+	+	+	+	+
Glucose Solution	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	GL			60	+	+	+	+	+	+	+	+	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Glycerine	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	TR	1,26		20	+	+	+	+	+	+	o	+	+
Glycerine	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	TR			40	+	+	+	+	+	+	o	+	+
Glycerine	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	TR			60	+	+	+	+	+	+	o	+	+
Glycol	See Ethylene Glycol													
Glycolic Acid	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	37			20	+	+	-	+	+	+	+	+	+
Glycolic Acid	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	70			20	+	+	-	+	+	+	-	+	+
Glycolic Acid	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	70			40	+	+	-	o	o	o	-	o	+
Glycolic Acid	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	70			60	+	+	-	-	o	o	-	-	+
Glucose	See Glycerine													
Heptane	C <sub>7</sub> H <sub>16</sub>	TR	0,68	AI	20	+	+	+	+	+	+	+	-	+
Heptane	C <sub>7</sub> H <sub>16</sub>	TR			40	+	+	+	+	+	+	+	-	+
Heptane	C <sub>7</sub> H <sub>16</sub>	TR			60	+	+	+	o	+	+	+	-	+
Hexahydrobenzene	See Cyclohexane													
Hexalin	See Cyclohexanol													
Hexamethylenetetramine	(CH <sub>2</sub> ) <sub>6</sub> N <sub>4</sub>	10			20	+	+	+	-	+	o	-	-	+
Hexamethylenetetramine	(CH <sub>2</sub> ) <sub>6</sub> N <sub>4</sub>	10			40	+	+	+	-	+	-	-	-	+
Hexamethylenetetramine	(CH <sub>2</sub> ) <sub>6</sub> N <sub>4</sub>	10			60	+	+	+	-	o	-	-	-	+
Hexamine	See Hexamethylenetetramine													
Hexane	C <sub>6</sub> H <sub>14</sub>	TR		AI	20	+	+	+	+	+	+	+	-	+
Hexane	C <sub>6</sub> H <sub>14</sub>	TR			40	+	+	+	+	+	+	+	-	+
Hexane	C <sub>6</sub> H <sub>14</sub>	TR			60	+	+	+	o	+	+	+	-	+
Hexanedioic Acid	See Adipic Acid													
Hexanol	C <sub>6</sub> H <sub>13</sub> OH		0,82	AIll	20	+	+	-	+	+	+	-	+	+
Hexylalcohol	See Hexanol													
Hydrazine	H <sub>2</sub> N-NH <sub>2</sub>	TR	1,08	B	20	+	+	-	+	+	+	+	+	+
Hydrazine	H <sub>2</sub> N-NH <sub>2</sub>	TR			40	o	+	-	o	+	+	o	o	+
Hydrazine	H <sub>2</sub> N-NH <sub>2</sub>	TR			60	-	o	-	-	+	o	-	-	+
Hydriodic Acid	HJ	TR			20	o	o	-	+	+	+	+	+	+
Hydriodic Acid	HJ	TR			40	o	o	-	+	+	+	o	+	+
Hydriodic Acid	HJ	TR			60	-	o	-	+	+	+	o	+	+
Hydrobromic Acid	HBr + H <sub>2</sub> O	10	1,07		20	-	o	-	+	+	+	-	+	+
Hydrobromic Acid	HBr + H <sub>2</sub> O	10			40	-	o	-	+	+	+	-	+	+
Hydrobromic Acid	HBr + H <sub>2</sub> O	10			60	-	-	-	+	+	+	-	o	+
Hydrobromic Acid	HBr + H <sub>2</sub> O	48	1,44		20	-	o	-	+	+	+	o	+	+
Hydrobromic Acid	HBr + H <sub>2</sub> O	48			40	-	o	-	+	+	+	-	+	+
Hydrobromic Acid	HBr + H <sub>2</sub> O	48			60	-	-	-	+	+	+	-	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	+
Hydrocyanic Acid	HCN	TR	0,69		20	+	+	-	+	+	+	o	+	+
Hydrocyanic Acid	HCN	GL			20	+	+	-	+	+	o	-	o	+
Hydrocyanic Acid	HCN	GL			40	+	+	-	+	+	o	-	o	+
Hydrocyanic Acid	HCN	GL			60	o	+	-	+	+	o	-	o	+
Hydrofluoric Acid	HF	40	1,06		20	-	o	-	+	+	+	-	o	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
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 <sub>2</sub> SiF <sub>6</sub>	32	1,17		20	-	+	-	+	+	+	o	+	+
Hydrofluosilic Acid	H <sub>2</sub> SiF <sub>6</sub>	32			40	-	o	-	+	+	+	-	o	+
Hydrofluosilic Acid	H <sub>2</sub> SiF <sub>6</sub>	32			60	-	o	-	+	+	+	-	o	+
Hydrogen Fluoride	See Hydrofluoric Acid													
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	3	1,01		20	+	+	+	+	+	+	o	+	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	3			40	+	+	+	+	+	o	-	+	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	3			60	+	+	+	+	+	o	-	o	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	10	1,04		20	+	+	+	+	+	+	o	+	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	10			40	+	+	+	+	+	o	-	o	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	10			60	+	+	+	+	+	o	-	o	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	20	1,07		20	+	+	+	+	+	+	o	+	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	20			40	+	+	+	+	+	o	-	o	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	20			60	+	+	+	o	+	o	-	-	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	30	1,11		20	+	+	+	+	+	+	-	+	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	30			40	+	+	+	+	+	o	-	o	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	30			60	+	+	+	o	+	o	-	o	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	90	1,42		20	+	+	+	-	+	+	-	+	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	90			40	+	+	+	-	o	o	-	o	+
Hydrogen Peroxide	H <sub>2</sub> O <sub>2</sub>	90			60	+	+	+	-	o	o	-	o	+
Hydroxy Acetic Acid	See Glycolic Acid													
Hydroxybenzene	See Phenol													
Hydroxysuccinic Acid	HOOC-CH <sub>2</sub> -CHOH-COOH	50			20	+	+	-	+	+	+	+	+	+
Hydroxysuccinic Acid	HOOC-CH <sub>2</sub> -CHOH-COOH	50			40	+	+	-	+	+	+	+	+	+
Hydroxysuccinic Acid	HOOC-CH <sub>2</sub> -CHOH-COOH	50			60	+	+	-	+	+	+	+	+	+
Ink		H	1,00		20	+	+	+	+	+	+	+	+	+
Iodine Preparations		H			20	o	+	o	+	+	+	+	+	+
Iodine Preparations		H			40	o	+	o	+	+	+	+	+	+
Iodine Preparations		H			60	o	+	o	+	+	+	+	+	+
Iodoform	See Triiodine Methane													
Iron Vitriol	See Ferrosulphate													
Isobutanol	See Isobutyl Alcohol													
Isobutyl Alcohol	C <sub>4</sub> H <sub>10</sub> O	100	0,81	All	20	+	+	+	+	+	+	-	+	+
Isobutyl Alcohol	C <sub>4</sub> H <sub>10</sub> O	100			40	+	+	+	+	+	+	-	+	+
Isobutyl Alcohol	C <sub>4</sub> H <sub>10</sub> O	100			60	+	+	+	+	+	+	-	+	+
Isocyanate					20	+	+	+	-	-	+	+	-	+
Isooctane	C <sub>8</sub> H <sub>18</sub>	TR		Al	20	+	+	+	+	+	+	+	+	+
Isooctanol	C <sub>8</sub> H <sub>17</sub> -CH(C <sub>2</sub> H <sub>5</sub> )	TR	0,83	All	20	+	+	+	+	+	+	o	+	+
Isopropanol	See Propanol													
Isopropyl Acetate	C <sub>5</sub> H <sub>10</sub> O <sub>2</sub>		0,87	Al	20	+	+	o	o	+	-	+	+	+
Isopropyl Ether	C <sub>6</sub> H <sub>14</sub> O	TR	0,73	Al	20	+	+	o	o	+	-	-	-	+
Isopropyl Ether	C <sub>6</sub> H <sub>14</sub> O	TR			40	+	+	o	o	o	-	-	-	+
Isopropyl Ether	C <sub>6</sub> H <sub>14</sub> O	TR			60	+	+	o	o	o	-	-	-	+
Kerosene	See Naphtha													
Kerosine	See Naphtha													



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

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Maleic Acid	C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	GL			60	+	+	-	+	+	+	-	-	+
Malic Acid	See Hydrosuccinic Acid													
Manganous Chloride	MnCl <sub>2</sub>	20	1,19		20	o	+	-	+	+	+	+	+	+
Manganous Chloride	MnCl <sub>2</sub>	20			40	o	+	-	+	+	+	+	+	+
Manganous Chloride	MnCl <sub>2</sub>	20			60	-	o	-	+	+	+	o	+	+
Mercury Cyanide	Hg(CN) <sub>2</sub>	TR			20	+	+	-	+	+	+	+	+	+
Mercury Cyanide	Hg(CN) <sub>2</sub>	TR			40	+	+	-	+	+	+	+	+	+
Mercury Cyanide	Hg(CN) <sub>2</sub>	TR			60	+	+	-	+	+	+	o	+	+
Mercury Nitrate	Hg(NO <sub>3</sub> ) <sub>2</sub>	GL			20	+	+	-	+	+	+	o	+	+
Mercury Nitrate	Hg(NO <sub>3</sub> ) <sub>2</sub>	GL			40	+	+	-	+	+	+	o	+	+
Mercury Nitrate	Hg(NO <sub>3</sub> ) <sub>2</sub>	GL			60	+	+	-	+	+	+	-	+	+
Methanol	CH <sub>3</sub> OH	TR		B	20	+	+	+	+	+	o	o	+	+
Methanol	CH <sub>3</sub> OH	TR			40	+	+	+	+	+	o	o	+	+
Methanol	CH <sub>3</sub> 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 <sub>2</sub> ) <sub>2</sub> OHCH <sub>3</sub>		0,98		20	+	+	+	+	+	+	+	+	+
Methyl Glycol	(CH <sub>2</sub> ) <sub>2</sub> OHCH <sub>3</sub>				40	+	+	+	+	+	+	+	+	+
Methyl Glycol	(CH <sub>2</sub> ) <sub>2</sub> OHCH <sub>3</sub>				60	+	+	+	+	+	+	+	+	+
Methyl Isobutyl Ketone (MIBK)	C <sub>6</sub> H <sub>11</sub> O			AI	20	+	+	-	-	+	o	o	o	+
Methyl Pentanon	See Methyl Isobutyl Ketone (MIBK)													
Methyl Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub> -CH <sub>2</sub>	50			20	o	o	-	o	+	o	-	+	+
Methyl Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub> -CH <sub>2</sub>	50			40	-	o	-	o	+	o	-	+	+
Methyl Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub> -CH <sub>2</sub>	50			60	-	-	-	-	+	-	-	o	+
Methyl Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub> -CH <sub>2</sub>	TR			20	o	o	-	-	+	o	-	+	+
Methyl Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub> -CH <sub>2</sub>	TR			40	-	o	-	-	+	o	-	+	+
Methyl Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub> -CH <sub>2</sub>	TR			60	-	o	-	-	+	-	-	o	+
Methylene Chloride	CH <sub>2</sub> Cl <sub>2</sub>		1,33		20	+	+	-	o	o	o	-	o	+
Methylene Chloride	CH <sub>2</sub> Cl <sub>2</sub>				40	+	+	-	o	o	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	+	+	+	+	+	+	+	o	+
Naphta		TR			40	+	+	+	+	+	+	+	-	+
Naphta		TR			60	+	+	+	+	+	+	+	-	+
Naphtenic Acid	See Fatty Acids													
Nickel Chloride	NiCl <sub>2</sub>	20	1,22		20	o	+	-	+	+	+	+	+	+
Nickel Chloride	NiCl <sub>2</sub>	20			40	o	+	-	+	+	+	+	+	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Nickel Chloride	NiCl <sub>2</sub>	20			60	o	+	-	+	+	+	o	+	+
Nickel Nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub>	35	1,38		20	+	+	-	+	+	+	+	+	+
Nickel Nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub>	35			40	+	+	-	+	+	+	+	+	+
Nickel Nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub>	35			60	+	+	-	+	+	+	o	+	+
Nickel Sulphate	NiSO <sub>4</sub>	10	1,21		20	+	+	-	+	+	+	+	+	+
Nickel Sulphate	NiSO <sub>4</sub>	10			40	+	+	-	+	+	+	+	+	+
Nickel Sulphate	NiSO <sub>4</sub>	10			60	+	+	-	+	+	+	+	+	+
Nicotine	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub>				20	+	+	-	-	-	+	o	+	+
Nitric Acid	HNO <sub>3</sub>	10	1,05		20	+	+	-	+	+	+	-	+	+
Nitric Acid	HNO <sub>3</sub>	10			40	+	+	-	o	+	+	-	+	+
Nitric Acid	HNO <sub>3</sub>	10			60	+	+	-	o	+	+	-	o	+
Nitric Acid	HNO <sub>3</sub>	30	1,18		20	+	+	-	o	+	+	-	+	+
Nitric Acid	HNO <sub>3</sub>	30			40	+	+	-	o	+	+	-	+	+
Nitric Acid	HNO <sub>3</sub>	30			60	o	+	-	-	+	+	-	o	+
Nitric Acid	HNO <sub>3</sub>	50	1,31		20	+	+	-	o	+	+	-	-	+
Nitric Acid	HNO <sub>3</sub>	50			40	o	+	-	-	+	o	-	-	+
Nitric Acid	HNO <sub>3</sub>	50			60	o	o	-	-	+	o	-	-	+
Nitric Acid	HNO <sub>3</sub>	65	1,41		20	+	+	-	-	+	o	-	-	+
Nitric Acid	HNO <sub>3</sub>	65			40	o	+	-	-	+	o	-	-	+
Nitric Acid	HNO <sub>3</sub>	65			60	o	o	-	-	+	o	-	-	+
Nitrobenzene	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	TR	1,21	All	20	+	+	+	+	+	o	o	o	+
Nitrobenzene	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	TR			40	+	+	+	o	+	o	o	-	+
Nitrobenzene	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	TR			60	+	+	+	o	+	o	-	-	+
Nitrotoluene	C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> NO <sub>2</sub>	TR			20	+	+	+	+	+	o	o	o	+
Nitrotoluene	C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> NO <sub>2</sub>	TR			40	+	+	+	+	+	o	o	-	+
Nitrotoluene	C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> NO <sub>2</sub>	TR			60	+	+	+	o	+	o	o	-	+
Nitrous Acid	HNO <sub>2</sub>				20	o	+	-	o	+	+	-	o	+
Nitrous Acid	HNO <sub>2</sub>				40	o	+	-	o	+	+	-	o	+
Nitrous Acid	HNO <sub>2</sub>				60	o	+	-	-	+	+	-	-	+
Octal	See Dioctyl Phthalate													
Octane	C <sub>8</sub> H <sub>18</sub>	TR		Al	20	+	+	+	+	+	+	+	+	+
Oil	See Mineral Oils													
Oleic Acid	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	TR	0,90		20	+	+	-	+	+	+	o	-	+
Oleic Acid	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	TR			40	+	+	-	+	+	o	o	-	+
Oleic Acid	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	TR			60	+	+	-	o	+	o	-	-	+
Oleum	H <sub>2</sub> SO <sub>4</sub> +SO <sub>3</sub>				20	+	+	-	-	-	+	-	-	+
Oxalic Acid	(CO <sub>2</sub> H) <sub>2</sub>	10			20	+	+	-	+	+	+	+	+	+
Oxalic Acid	(CO <sub>2</sub> H) <sub>2</sub>	10			40	+	+	-	o	+	+	+	+	+
Oxalic Acid	(CO <sub>2</sub> H) <sub>2</sub>	10			60	+	+	-	o	+	+	+	+	+
Oxalic Acid	(CO <sub>2</sub> H) <sub>2</sub>	GL	1,65		20	+	+	-	+	+	+	o	+	+
Oxalic Acid	(CO <sub>2</sub> H) <sub>2</sub>	GL			40	+	+	-	o	+	+	o	o	+
Oxalic Acid	(CO <sub>2</sub> H) <sub>2</sub>	GL			60	+	+	-	o	o	+	o	o	+
Palatinol C	See Dibutyl Phthalate													
Paraffin Oil	CnH <sub>2n</sub>	TR	0,93		20	+	+	+	+	+	+	+	-	+
Paraffin Oil	CnH <sub>2n</sub>	TR			40	+	+	+	+	+	+	o	-	+
Paraffin Oil	CnH <sub>2n</sub>	TR			60	+	+	+	+	+	+	o	-	+
Pectine		10			20	+	+	+	+	+	+	+	+	+
Pentanol, 1-Pentanol	See Amyl Alcohol													
Pentyl Acetate	See Amyl Acetate													
Pentyl Chloride	See Amyl Chloride													

# Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Peracetic Acid		TR			20	+	-	-	+	+	-	-	-	+
Peracetic Acid		TR			40	+	-	-	+	+	-	-	-	+
Peracetic Acid		TR			60	+	-	-	+	+	-	-	-	+
Perchloric Acid	HClO <sub>4</sub>	20			20	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	20			40	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	20			60	+	+	-	+	+	o	-	o	+
Perchloric Acid	HClO <sub>4</sub>	50	1,40		20	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	50			40	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	50			60	+	+	-	o	+	o	-	o	+
Perchloric Acid	HClO <sub>4</sub>	70	1,55		20	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	70			40	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	70			60	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	GL			20	+	+	-	+	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	GL			40	+	+	-	o	+	+	-	+	+
Perchloric Acid	HClO <sub>4</sub>	GL			60	o	+	-	-	+	+	-	+	+
Perchloroethylene	C <sub>2</sub> Cl <sub>4</sub>	TR			20	+	+	-	-	+	+	-	-	+
Perchloroethylene	C <sub>2</sub> Cl <sub>4</sub>	TR			40	+	+	-	-	+	+	-	-	+
Perchloroethylene	C <sub>2</sub> Cl <sub>4</sub>	TR			60	o	+	-	-	+	+	-	-	+
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 <sub>6</sub> H <sub>5</sub> O	100			20	+	+	+	+	+	+	+	+	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	100			40	+	+	+	+	+	+	+	o	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	100			60	+	+	+	+	+	+	+	o	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	50			20	+	+	+	+	+	+	+	+	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	50			40	+	+	+	+	+	+	+	o	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	50			60	+	+	+	+	+	+	+	o	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	90			20	+	+	+	+	+	+	+	-	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	90			40	+	+	+	+	+	o	+	-	+
Phenol	C <sub>6</sub> H <sub>5</sub> O	90			60	+	+	+	+	+	o	o	-	+
Phenyl Chloride	See Chlorobenzene													
Phosphor Chloride	See Phosphorous Trichloride													
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	30	1,18		20	+	+	-	+	+	+	o	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	30			40	+	+	-	+	+	+	o	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	30			60	+	+	-	+	+	+	-	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	50			20	+	+	-	+	+	+	o	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	50			40	+	+	-	+	+	+	o	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	50			60	o	+	-	+	+	+	-	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	85	1,69		20	+	+	-	+	+	+	-	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	85			40	+	+	-	+	+	+	-	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	85			60	o	+	-	+	+	o	-	+	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	95	1,70		20	-	+	-	+	+	+	-	o	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	95			40	-	+	-	o	+	+	-	o	+
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	95			60	-	o	-	-	+	o	-	o	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Phosphorous Trichloride	POCl <sub>3</sub>	TR	1,57		20	+	+	-	+	+	+	-	+	+
Phosphorous Trichloride	POCl <sub>3</sub>	TR			40	o	o	-	o	+	+	-	+	+
Phosphorous Trichloride	POCl <sub>3</sub>	TR			60	-	-	-	o	+	+	-	+	+
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub> +H <sub>2</sub> O	50			20	+	+	-	+	+	+	-	+	+
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub> +H <sub>2</sub> O	50			40	+	+	-	+	+	+	-	+	+
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub> +H <sub>2</sub> O	50			60	+	+	-	+	+	+	-	+	+
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub> +H <sub>2</sub> O	GL	1,59		20	+	+	-	+	+	o	-	+	+
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub> +H <sub>2</sub> O	GL			40	+	+	-	+	+	o	-	+	+
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub> +H <sub>2</sub> 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 <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O	50			20	+	+	+	+	+	+	+	+	+
Potassium Aluminium Sulphate	KAl(SO <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O	50			40	+	+	+	+	+	+	o	+	+
Potassium Aluminium Sulphate	KAl(SO <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O	50			60	+	+	+	+	+	+	-	+	+
Potassium Bichromate	See Potassium Dichromate													
Potassium Bromate	KBrO <sub>3</sub> +H <sub>2</sub> O	GL			20	+	+	+	+	+	+	+	+	+
Potassium Bromate	KBrO <sub>3</sub> +H <sub>2</sub> O	GL			40	+	+	+	+	+	+	+	+	+
Potassium Bromate	KBrO <sub>3</sub> +H <sub>2</sub> O	GL			60	+	+	+	+	+	+	+	+	+
Potassium Bromide	KBr + H <sub>2</sub> O	10	1,37		20	+	+	-	+	+	+	+	+	+
Potassium Bromide	KBr + H <sub>2</sub> O	10			40	+	+	-	+	+	+	+	+	+
Potassium Bromide	KBr + H <sub>2</sub> O	10			60	o	+	-	+	+	+	+	+	+
Potassium Bromide	KBr + H <sub>2</sub> O	GL			20	+	+	-	+	+	+	+	+	+
Potassium Bromide	KBr + H <sub>2</sub> O	GL			40	+	+	-	+	+	+	+	+	+
Potassium Bromide	KBr + H <sub>2</sub> O	GL			60	o	+	-	+	+	+	+	+	+
Potassium Carbonate	K <sub>2</sub> CO <sub>3</sub>	GL			20	+	+	-	+	+	+	+	+	+
Potassium Carbonate	K <sub>2</sub> CO <sub>3</sub>	GL			40	+	+	-	+	+	+	+	+	+
Potassium Carbonate	K <sub>2</sub> CO <sub>3</sub>	GL			60	+	+	-	+	+	+	+	+	+
Potassium Chlorate	KClO <sub>3</sub>	50			20	+	+	-	+	+	+	+	+	+
Potassium Chlorate	KClO <sub>3</sub>	50			40	+	+	-	+	+	+	o	+	+
Potassium Chlorate	KClO <sub>3</sub>	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 <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	40			20	+	+	-	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	10			20	+	+	+	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	10			40	+	+	+	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	10			60	+	+	+	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	20	1,11		20	+	+	+	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	20			40	+	+	+	+	+	+	+	+	+

# Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	20			60	+	+	+	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	GL			20	+	+	+	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	GL			40	+	+	+	+	+	+	+	+	+
Potassium Ferricyanide	K <sub>4</sub> Fe(CN) <sub>6</sub>	GL			60	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	10			20	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	10			40	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	10			60	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	16	1,11		20	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	16			40	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	16			60	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	GL			20	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	GL			40	+	+	+	+	+	+	+	+	+
Potassium Ferrocyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	GL			60	+	+	+	+	+	+	+	+	+
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 <sub>3</sub>	10			20	+	+	+	+	+	+	+	+	+
Potassium Nitrate	KNO <sub>3</sub>	10			40	+	+	+	+	+	+	+	+	+
Potassium Nitrate	KNO <sub>3</sub>	10			60	+	+	+	+	+	+	+	+	+
Potassium Nitrate	KNO <sub>3</sub>	24	1,17		20	+	+	+	+	+	+	+	+	+
Potassium Nitrate	KNO <sub>3</sub>	24			40	+	+	+	+	+	+	+	+	+
Potassium Nitrate	KNO <sub>3</sub>	24			60	+	+	+	+	+	+	+	+	+
Potassium Oxalate	K <sub>2</sub> (CO <sub>2</sub> ) <sub>2</sub>				20	+	+	-	+	+	+	-	+	+
Potassium Oxalate	K <sub>2</sub> (CO <sub>2</sub> ) <sub>2</sub>				40	+	+	-	+	+	+	-	+	+
Potassium Oxalate	K <sub>2</sub> (CO <sub>2</sub> ) <sub>2</sub>				60	+	+	-	+	+	+	-	+	+
Potassium Permanganate	KMnO <sub>4</sub>	6	1,04		20	+	+	+	+	+	+	o	+	+
Potassium Permanganate	KMnO <sub>4</sub>	6			40	+	+	+	+	+	+	o	+	+
Potassium Permanganate	KMnO <sub>4</sub>	6			60	+	+	+	+	+	+	o	+	+
Potassium Permanganate	KMnO <sub>4</sub>	18			20	+	+	+	+	+	+	o	+	+
Potassium Permanganate	KMnO <sub>4</sub>	18			40	+	+	+	+	+	+	o	+	+
Potassium Sulphate	K <sub>2</sub> SO <sub>4</sub>	10	1,08		20	+	+	+	+	+	+	+	+	+
Potassium Sulphate	K <sub>2</sub> SO <sub>4</sub>	10			40	+	+	+	+	+	+	+	+	+
Potassium Sulphate	K <sub>2</sub> SO <sub>4</sub>	10			60	+	+	+	+	+	+	+	+	+
Propanediol	See Propylene Glycol													
Propanone	See Acetone													

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Propionic Acid	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	50			20	+	+	-	+	+	+	-	o	+
Propionic Acid	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	50			40	+	+	-	+	+	+	-	o	+
Propionic Acid	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	50			60	+	+	-	+	+	o	-	o	+
Propionic Acid	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	TR	0,99		20	+	+	-	+	+	+	-	+	+
Propionic Acid	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	TR			40	+	+	-	o	+	+	-	+	+
Propionic Acid	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	TR			60	+	+	-	o	+	+	-	o	+
Propyl Acetate	See Isopropylacetate													
Propyl Alcohol	C <sub>3</sub> H <sub>8</sub> O	TR		B	20	+	+	+	+	+	+	+	o	+
Propyl Alcohol	C <sub>3</sub> H <sub>8</sub> O	TR			40	+	+	+	+	+	+	+	o	+
Propyl Alcohol	C <sub>3</sub> H <sub>8</sub> O	TR			60	+	+	+	+	+	+	+	o	+
Propylene Aldehyde	C <sub>4</sub> H <sub>6</sub> O	TR		AI	20	+	+	+	-	+	+	+	+	+
Propylene Glycol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	TR	1,04		20	+	+	+	+	+	+	+	+	+
Propylene Glycol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	TR			40	+	+	+	+	+	+	o	+	+
Propylene Glycol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	TR			60	+	+	+	+	+	o	-	+	+
Propylene Oxide	C <sub>3</sub> H <sub>6</sub> O	TR	0,83	AI	20	+	+	+	+	+	-	-	-	+
Propylene Oxide	C <sub>3</sub> H <sub>6</sub> O	TR			40	+	+	+	+	+	-	-	-	+
Prussic Acid	See Hydrocyanic Acid													
Pyranon	See Diacetone Alcohol													
Pyridine	C <sub>5</sub> H <sub>5</sub> N	TR	0,99	B	20	+	+	+	o	+	o	-	+	+
Pyridine	C <sub>5</sub> H <sub>5</sub> N	TR			40	+	+	+	o	+	-	-	o	+
Pyridine	C <sub>5</sub> H <sub>5</sub> N	TR			60	+	+	+	o	o	-	-	o	+
Pyrogallol	See Pyrogallol													
Pyrogallol	C <sub>6</sub> H <sub>3</sub> (OH) <sub>3</sub> -1,2,3	10			20	+	+	+	+	+	+	o	+	+
Pyrogallol	C <sub>6</sub> H <sub>3</sub> (OH) <sub>3</sub> -1,2,3	10			40	+	+	+	+	+	+	-	+	+
Pyrogallol	C <sub>6</sub> H <sub>3</sub> (OH) <sub>3</sub> -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) <sub>4</sub>	TR			20	+	+	-	+	+	+	-	+	+
Silicic Acid	Si(OH) <sub>4</sub>	TR			40	+	+	-	+	+	+	-	+	+
Silicic Acid	Si(OH) <sub>4</sub>	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 <sub>3</sub>	8	1,07		20	+	+	-	+	+	+	+	+	+
Silver Nitrate	AgNO <sub>3</sub>	8			40	+	+	-	+	+	+	+	+	+
Silver Nitrate	AgNO <sub>3</sub>	8			60	+	+	-	+	+	+	+	+	+
Soda	See Sodium Bicarbonate													
Sodium Acetate	CH <sub>3</sub> COONa	10			20	+	+	+	+	+	+	+	+	+
Sodium Acetate	CH <sub>3</sub> COONa	10			40	+	+	+	+	+	+	+	+	+

# Resistance Chart

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Sodium Acetate	CH <sub>3</sub> COONa	10			60	+	+	+	+	+	+	o	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	10			20	+	+	+	+	+	+	+	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	10			40	+	+	+	+	+	+	+	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	10			60	+	+	+	+	+	+	o	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	36			20	+	+	+	+	+	+	+	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	36			40	+	+	+	+	+	+	+	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	36			60	+	+	+	+	+	+	o	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	GL			20	+	+	+	+	+	+	+	+	+
Sodium Benzoate	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>	GL			40	+	+	+	+	+	+	+	+	+
Sodium Bicarbonate	NaHCO <sub>3</sub>	10	1,07		20	+	+	+	+	+	+	+	+	+
Sodium Bicarbonate	NaHCO <sub>3</sub>	10			40	+	+	+	+	+	+	+	+	+
Sodium Bicarbonate	NaHCO <sub>3</sub>	10			60	+	+	+	+	+	+	+	+	+
Sodium Bichromate	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	10			20	+	+	+	+	+	+	+	+	+
Sodium Bichromate	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	10			40	+	+	+	+	+	+	+	+	+
Sodium Bichromate	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	10			60	+	+	+	+	+	+	o	+	+
Sodium Chlorate	NaClO <sub>3</sub>	25	1,23		20	+	+	-	+	+	+	+	+	+
Sodium Chlorate	NaClO <sub>3</sub>	25			40	+	+	-	+	+	+	o	+	+
Sodium Chlorate	NaClO <sub>3</sub>	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 <sub>2</sub>	5			20	o	+	-	+	+	+	+	+	+
Sodium Chlorite	NaClO <sub>2</sub>	5			40	-	o	-	+	+	+	+	+	+
Sodium Chlorite	NaClO <sub>2</sub>	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 <sub>3</sub>	45	1,37		20	+	+	+	+	+	+	+	+	+
Sodium Nitrate	NaNO <sub>3</sub>	45			40	+	+	+	+	+	+	+	+	+
Sodium Nitrate	NaNO <sub>3</sub>	45			60	+	+	+	+	+	+	+	+	+
Sodium Nitrite	NaNO <sub>2</sub>	50			20	+	+	+	+	+	+	+	+	+
Sodium Nitrite	NaNO <sub>2</sub>	50			40	+	+	+	+	+	+	o	+	+
Sodium Nitrite	NaNO <sub>2</sub>	50			60	+	+	+	+	+	+	-	+	+



**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Sodium Perchlorate	NaClO <sub>4</sub>	25	1,18		20	o	+	+	+	+	+	+	+	+
Sodium Perchlorate	NaClO <sub>4</sub>	25			40	o	+	+	+	+	+	+	+	+
Sodium Perchlorate	NaClO <sub>4</sub>	25			60	o	+	o	+	+	+	o	+	+
Sodium Phosphate	Na <sub>3</sub> PO <sub>4</sub>	10			20	+	+	+	+	+	+	+	+	+
Sodium Phosphate	Na <sub>3</sub> PO <sub>4</sub>	10			40	+	+	+	+	+	+	+	+	+
Sodium Phosphate	Na <sub>3</sub> PO <sub>4</sub>	10			60	+	+	+	+	+	+	+	+	+
Sodium Silicate	See Sodium Water Glass													
Sodium Sulphate	Na <sub>2</sub> SO <sub>4</sub>	50	1,46		20	+	+	+	+	+	+	+	+	+
Sodium Sulphate	Na <sub>2</sub> SO <sub>4</sub>	50			40	+	+	+	+	+	+	+	+	+
Sodium Sulphate	Na <sub>2</sub> SO <sub>4</sub>	50			60	+	+	+	+	+	+	+	+	+
Sodium Sulphite	Na <sub>2</sub> SO <sub>3</sub>	GL	1,18		20	+	+	+	+	+	+	+	+	+
Sodium Sulphite	Na <sub>2</sub> SO <sub>3</sub>	GL			40	+	+	o	+	+	+	o	+	+
Sodium Sulphite	Na <sub>2</sub> SO <sub>3</sub>	GL			60	+	+	-	+	+	+	-	+	+
Sodium Tetraborate	See Borax													
Sodium Thiosulphate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	40			20	+	+	+	+	+	+	+	o	+
Sodium Thiosulphate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	40			40	+	+	+	+	+	+	o	-	+
Sodium Thiosulphate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	40			60	+	+	+	o	+	+	-	-	+
Sodium Water Glass	Na <sub>2</sub> SiO <sub>3</sub>	20	1,24		20	+	+	+	+	+	+	+	+	+
Sodium Water Glass	Na <sub>2</sub> SiO <sub>3</sub>	20			40	+	+	+	+	+	+	+	+	+
Sodium Water Glass	Na <sub>2</sub> SiO <sub>3</sub>	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 <sub>2</sub>	20	1,17		20	o	+	-	+	+	+	+	+	+
Stannous Chloride	SnCl <sub>2</sub>	20			40	o	+	-	+	+	+	+	+	+
Stannous Chloride	SnCl <sub>2</sub>	20			60	o	+	-	+	+	+	+	+	+
Starch Gum	See Dextrine													
Styrene	C <sub>6</sub> H <sub>5</sub> CHCH <sub>2</sub>	TR	0,91	All	20	+	+	+	o	o	o	-	-	+
Succinic Acid	See Ethane Dicarboxylic Acid													
Sulphur Chloride	S <sub>2</sub> Cl <sub>2</sub>	10			20	o	+	o	o	+	+	-	-	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	40	1,30		20	o	+	-	+	+	+	o	+	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	40			40	-	+	-	+	+	+	o	+	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	40			60	-	o	-	o	+	+	-	+	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	80	1,73		20	o	+	-	+	+	+	-	+	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	80			40	-	o	-	+	+	+	-	+	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	80			60	-	o	-	o	+	+	-	o	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	90	1,82		20	+	+	-	o	+	+	-	+	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	90			40	o	+	-	o	+	+	-	+	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	90			60	o	+	-	o	+	+	-	o	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	98	1,84		20	+	+	-	o	+	+	-	o	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	98			40	o	+	-	o	+	o	-	o	+
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	98			60	o	+	-	o	+	-	-	o	+
Sulphuric Ether	See Ether													
Sulphurous Acid	H <sub>2</sub> SO <sub>3</sub>	50			20	o	+	-	+	+	+	o	+	+
Sulphurous Acid	H <sub>2</sub> SO <sub>3</sub>	50			40	o	+	-	+	+	+	-	+	+
Sulphurous Acid	H <sub>2</sub> SO <sub>3</sub>	50			60	-	o	-	+	+	o	-	+	+
Sulphite Lye	See Calcium Bisulphite													
Sylvine	See Potassium Chloride													

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Tannic Acid	C <sub>2</sub> O <sub>6</sub> H <sub>6</sub>	50			20	+	+	-	+	+	+	+	+	+
Tannic Acid	C <sub>2</sub> O <sub>6</sub> H <sub>6</sub>	50			40	+	+	-	+	+	+	o	+	+
Tannic Acid	C <sub>2</sub> O <sub>6</sub> H <sub>6</sub>	50			60	+	+	-	+	+	+	-	+	+
Tanning Extracts Vegetable		H			20	+	+	+	+	+	+	+	+	+
Tanning Extracts Vegetable		H			40	+	+	o	+	+	+	o	+	+
Tanning Extracts Vegetable		H			60	+	+	-	o	+	+	-	o	+
Tartaric Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	GL	1,76		20	+	+	-	+	+	+	+	+	+
Tartaric Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	GL			40	+	+	-	+	+	+	+	+	+
Tartaric Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	GL			60	+	+	-	+	+	+	o	+	+
Tetrachloroethane	Cl <sub>2</sub> CH-CHCl	TR	1,60		20	+	+	-	o	+	o	-	-	+
Tetrachloroethane	Cl <sub>2</sub> CH-CHCl <sub>2</sub>	TR			40	+	+	-	o	+	o	-	-	+
Tetrachloroethane	Cl <sub>2</sub> CH-CHCl <sub>2</sub>	TR			60	+	+	-	-	o	o	-	-	+
Tetrachloroethylene	Perchlorethylene													
Tetrachloromethane	CCl <sub>4</sub>	TR	1,59		20	+	+	+	o	+	+	-	o	+
Tetrachloromethane	CCl <sub>4</sub>	TR			40	+	+	+	o	+	+	-	-	+
Tetrachloromethane	CCl <sub>4</sub>	TR			60	+	+	o	-	+	+	-	-	+
Tetrahydrofurane	C <sub>4</sub> H <sub>8</sub> O	TR	0,89	B	20	+	+	-	o	o	o	-	o	+
Tetrahydrofurane	C <sub>4</sub> H <sub>8</sub> O	TR			40	+	+	-	-	-	o	-	-	+
Tetrahydrofurane	C <sub>4</sub> H <sub>8</sub> O	TR			60	+	+	-	-	-	o	-	-	+
Tetrahydronaphtalene	Tetraline													
Tetraline	C <sub>10</sub> H <sub>12</sub>	100	0,97	Alll	20	+	+	+	-	+	+	-	o	+
Tetraline	C <sub>10</sub> H <sub>12</sub>	100			40	+	+	+	-	+	+	-	-	+
Tetraline	C <sub>10</sub> H <sub>12</sub>	100			60	+	+	+	-	+	+	-	-	+
Thiofurane	Thiophene													
Thionyl Chloride	SOCl <sub>2</sub>	TR	1,66		20	+	+	-	-	+	-	-	+	+
Thionyl Chloride	SOCl <sub>2</sub>	TR			40	+	+	-	-	+	-	-	+	+
Thionyl Chloride	SOCl <sub>2</sub>	TR			60	+	+	-	-	+	-	-	+	+
Thiophene	C <sub>4</sub> H <sub>4</sub> S			AI	20	+	+	-	o	+	+	-	+	+
Toluene	C <sub>7</sub> H <sub>8</sub>		0,87	AI	20	+	+	+	o	+	o	-	o	+
Toluene	C <sub>7</sub> H <sub>8</sub>				40	+	+	+	o	+	o	-	-	+
Toluene	C <sub>7</sub> H <sub>8</sub>				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 <sub>12</sub> H <sub>27</sub> O <sub>4</sub> P	TR	0,98		20	+	+	o	+	+	+	-	+	+
Tributyl Phosphate	C <sub>12</sub> H <sub>27</sub> O <sub>4</sub> P	TR			40	+	+	o	+	+	o	-	+	+
Tributyl Phosphate	C <sub>12</sub> H <sub>27</sub> O <sub>4</sub> P	TR			60	+	+	o	+	+	-	-	+	+
Trichloroacetic Acid	CCl <sub>3</sub> CO <sub>2</sub> H	50			20	o	+	-	+	+	-	-	+	+
Trichloroacetic Acid	CCl <sub>3</sub> CO <sub>2</sub> H	50			40	-	+	-	+	+	-	-	o	+
Trichloroacetic Acid	CCl <sub>3</sub> CO <sub>2</sub> H	50			60	-	+	-	+	o	-	-	-	+
Trichloroacetic Acid	CCl <sub>3</sub> CO <sub>2</sub> H	TR	1,62		20	o	+	-	+	+	-	o	+	+
Trichloroacetic Acid	CCl <sub>3</sub> CO <sub>2</sub> H	TR			40	-	+	-	o	+	-	-	o	+
Trichloroacetic Acid	CCl <sub>3</sub> CO <sub>2</sub> H	TR			60	-	+	-	o	o	-	-	-	+
Trichlorobenzene	C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>				20	+	+	-	o	+	+	-	+	+
Trichlorobenzene	C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>				40	+	+	-	o	+	+	-	+	+
Trichlorobenzene	C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>				60	+	+	-	o	+	+	-	o	+
Trichloroethane	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	TR	1,34		20	+	+	-	o	+	o	-	-	+
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	50			20	+	+	-	o	+	o	-	o	+
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	50			40	+	+	-	o	+	o	-	-	+

**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm³]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/PEP
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	50			60	+	+	-	o	+	o	-	-	+
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	TR	1,47		20	+	+	-	o	+	+	-	o	+
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	TR			40	+	+	-	o	+	o	-	-	+
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	TR			60	+	+	-	-	+	o	-	-	+
Trichloromethane	See Chloroform													
Trichlorophenol	See Trichlorobenzene													
Tricresyl Phosphate	PO <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> ) <sub>3</sub>	TR	1,13		20	+	+	+	+	+	-	o	o	+
Tricresyl Phosphate	PO <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> ) <sub>3</sub>	TR			40	+	+	+	o	+	-	-	-	+
Tricresyl Phosphate	PO <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> ) <sub>3</sub>	TR			60	+	+	+	o	+	-	-	-	+
Triethylamine	C <sub>6</sub> H <sub>15</sub> N	TR	0,73	B	20	+	+	+	+	o	+	-	+	+
Triethylamine	C <sub>6</sub> H <sub>15</sub> N	TR			40	+	+	+	+	o	+	-	+	+
Triiodinemethane	CHJ <sub>3</sub>				20	+	+	-	+	+	+	+	o	+
Triiodinemethane	CHJ <sub>3</sub>				40	+	+	-	+	+	+	+	o	+
Triiodinemethane	CHJ <sub>3</sub>				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 <sub>4</sub> N <sub>2</sub> O	10			20	+	+	+	+	+	+	+	+	+
Urea	CH <sub>4</sub> N <sub>2</sub> O	10			40	+	+	+	+	+	+	+	+	+
Urea	CH <sub>4</sub> N <sub>2</sub> O	10			60	+	+	+	+	+	+	+	+	+
Urea	CH <sub>4</sub> N <sub>2</sub> O	33			20	+	+	+	+	+	+	+	+	+
Urea	CH <sub>4</sub> N <sub>2</sub> O	33			40	+	+	o	+	+	+	+	+	+
Urea	CH <sub>4</sub> N <sub>2</sub> 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 <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	TR	0,93	AI	20	+	+	-	+	+	o	+	o	+
Vinyl Acetate	C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	TR			40	+	+	-	o	+	-	+	o	+
Vinyl Acetate	C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	TR			60	+	+	-	o	+	-	+	o	+
Vinyl Benzene	See Styrene													
Vinyl Carbinol	See Allyl Alcohol													
Vinyl Cyanide	See Acrylnitrile													
Vinylidenechloride	See Dichloroethylene 1.1													
Water	H <sub>2</sub> O		1,00		20	+	+	+	+	+	+	+	+	+
Water	H <sub>2</sub> O				40	+	+	+	+	+	+	+	+	+
Water	H <sub>2</sub> O				60	+	+	+	+	+	+	+	+	+
Water, distilled	H <sub>2</sub> O		1,00		20	+	+	o	+	+	+	+	+	+
Water, distilled	H <sub>2</sub> O				40	+	+	o	+	+	+	+	+	+
Water, distilled	H <sub>2</sub> O				60	+	+	o	+	+	+	+	o	+
White Spirit				All		+	+	-	+	+	+	o	-	+
White Vitriol	See Zinc Sulphate													
Wool Fat	See Lanolin													
Xylene	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>	TR	0,86	All	20	+	+	+	-	+	+	-	-	+
Xylene	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>w</sub>	TR			40	+	+	+	-	+	o	-	-	+

**AlphaDynamic**  
**PUMPS**  
**Resistance Chart**

Description	Chemical Formula	Concentration in %	Density [kg/dm <sup>3</sup> ]	Danger class (VbF)	Temperature [C°]	Stainless Steel 316	Hastelloy C	Aluminium alloy	PP	PVDF	FKM	NBR	EPDM	PTFE/FEP
Xylene	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>	TR			60	+	+	+	-	o	o	-	-	+
Zinc Chloride	ZnCl <sub>2</sub>	20	1,19		20	+	+	-	+	+	+	+	+	+
Zinc Chloride	ZnCl <sub>2</sub>	20			40	+	+	-	+	+	+	+	+	+
Zinc Chloride	ZnCl <sub>2</sub>	20			60	+	+	-	+	+	+	+	+	+
Zinc Chloride	ZnCl <sub>2</sub>	75	2,07		20	-	+	-	+	+	+	+	+	+
Zinc Chloride	ZnCl <sub>2</sub>	75			40	-	+	-	+	+	+	+	+	+
Zinc Chloride	ZnCl <sub>2</sub>	75			60	-	+	-	+	+	+	+	+	+
Zinc Sulphate	ZnSO <sub>4</sub>	10	1,11		20	+	+	o	+	+	+	+	+	+
Zinc Sulphate	ZnSO <sub>4</sub>	10			40	+	+	o	+	+	+	+	+	+
Zinc Sulphate	ZnSO <sub>4</sub>	10			60	+	+	o	+	+	+	o	+	+
Zinc Sulphate	ZnSO <sub>4</sub>	GL	1,38		20	+	+	o	+	+	+	+	+	+
Zinc Sulphate	ZnSO <sub>4</sub>	GL			40	+	+	o	+	+	+	+	+	+
Zinc Sulphate	ZnSO <sub>4</sub>	GL			60	+	+	-	+	+	+	o	+	+



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