Chemical Resistance

Substance
Inorganic chemicals

Substance	Concentration (%)	Temperature up to ... °C	PVC: JZ-500/600/750, JB, OZ-BL, PVC-flat, TRONIC (LiYY), SUPERTRONIC-PVC	PVC: Li-TPC-Y, PAAR-CY-OZ, CEI 20-22, Bus cables PVC, RD-Y(St)Y, RE-2Y(St)Yv, Data cables PVC	PVC: JZ-HF, JZ-HF-CY, JZ-603, JZ-603-CY, N05W5-F, H05W5-F, H 05WC4V5-K	PVC: Trago, Lift-2S, JZ 604 TC, JZ 604-FCY TC, JZ 604-YCY TC	PVC: JZ-602, JZ-602-CY, TRONIC-CY, LiYCY, JZ-602 RC, PAAR-TRONIC-CY, SY-JZ, SY-JB, JZ-602 RC-CY	PVC: F-CY-JZ, Y-CY-JZ, JZ-HF-CY, J-Y(St)Y, J-YY, JE-Y(St)Y S-YY, S-Y(St)Y, TOPFLEX-PVC	PVC: ESUY, LifY, PVC-Single cores, EDV-PiMF-CY ESY, LiFDY, TUBEFLEX/-CY	PVC: H 05 V-K, H 07 V-K, H 03 W-F, H05 W-F	PVC: HELUTHERM 120, HELUTHERM 105, H05V2-K, H07V2-K, FIVENORM	PE: Coaxial-cable (PE), L2-BUS-cable (PE) A-2Y(L)2Y, A-2YF(L)2Y, HELUCOM®... 2Y	PUR: PURö-JZ, PURö-JZ-HF, TOPFLEX-PUR, ROBOFLEX, SUPERTRONIC-PUR, MULTIFLEX-PUR, TOPSERV®	H: J-H(St)H, Security Cable ..E 30/E 90, HELUCOM-H JZ-500-HMH /MXMHX, N2XH, RG-H	Silicone: SiHF, SiHF/GL-P, SiF, SiD, SiFF, SiF/GL, SiD/GL, SiHF-C-Si, FZ-LS, FZ-LSi	Neoprene Rubber: Neoprene-Round/Flat, NSHTÖU, AIRPORT 400 Hz H01N2-D/E, H 05/H 07-, A 05/A 07 RN-F	HELUFLON®: FEP-6Y, PTFE-5Y, Compensating cables-FEP
Alums	colts.	20	●	●	●	●	●	●	●	●	●		○	◑	○	●	●
Aluminium salts	each	20	●	●	●	●	●	●	●	●	●			◑			●
Ammonia, wat.	10	20	●	●	●	●	●	●	●	●	●		●	○	●	●	●
Ammonium acetate, wat.	each	20	●	●	●	●	●	●	●	●	●				●		●
Ammonium carbonate, wat.	each	20	●	●	●	●	●	●	●	●	●		○			●	●
Ammonium chloride, wat.	each	20	●	●	●	●	●	●	●	●	●		●			●	●
Barium salts	each	20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Boric acid	100	20	●	●	●	●	●	●	●	●	●	●	◑	◑	●	●	●
Calcium chloride, wat.	colts.	20	●	●	●	●	●	●	●	●	●	●	◑	◑		●	●
Calcium chloride, wat.	10 – 40	20											●				
Calcium nitrate, wat	colts.	20	●	●	●	●	●	●	●	●	●	●		◑		●	●
Chromium salts, wat.	colts.	20	●	●	●	●	●	●	●	●	●						●
Potassium carbonate, wat.		20	●	●	●	●	●	●	●	●	●	●			●	●	●
Potassium chlorate, wat.	colts.	20	●	●	●	●	●	●	●	●	●	◑		◑		●	●
Potassium chloride, wat.	colts.	20	●	●	●	●	●	●	●	●	●	●	○		●		●
Potassium dicromate, wat.		20	●	●	●	●	●	●	●	●	●				●	●	●
Potassium iodie, wat.		20	●	●	●	●	●	●	●	●	●	●		◑	●	●	●
Potassium nitrate, wat.	colts.	20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Potassium permanganate, wat.		20	◑	◑	◑	◑	◑	◑	◑	◑	◑	●	○			●	●
Potassium sulphate, wat.		20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Copper salts	colts.	20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Megnesium salts	colts.	20	●	●	●	●	●	●	●	●	●	●	◑	◑			●
Sodium bicarbonate (Natron), wat.		20	●	●	●	●	●	●	●	●	●		◑		●	●	●
Sodium bisulphite (Soda), wat.		20	●	●	●	●	●	●	●	●	●	●	○		●	●	●
Sodium chloride (Cook salt), wat.		20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Sodium thiosulfat, wat.		20	●	●	●	●	●	●	●	●	●	●	◑		●	●	●
Soda Lye	50	20	◑	◑	◑	◑	◑	◑	◑	◑	◑						●
Nickel salts, wat.	colts.	20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Nitrobenzene	100	50	○	○	○	○	○	○	○	○	○		○				
Phosphoric acid	50	20	●	●	●	●	●	●	●	●	●	●	○		◑		●
Mercury	100	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mercury salts	colts.	20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Nitric acid	30	20	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●
Hydrochlorid acid	conc.	20	○	○	○	○	○	○	○	○	○	●	○	○	○	○	●
Sulfur dioxide		20	●	●	●	●	●	●	●	●	●	◑	○		○	○	●
Carbon disulfide		20	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●
Sulfuric acid	50	50	●	●	●	●	●	●	●	●	●						●
Hydrogen sulfide		20	◑	◑	◑	◑	◑	◑	◑	◑	◑	◑				●	●
Sea water		20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Silver salts, wat.		20	●	●	●	●	●	●	●	●	●	●	●	◑	●	●	●
Cleaning fluid lye	2	100	○	○	○	○	○	○	○	○	○		○		○		
Water (dest.)		20	●	●	●	●	●	●	●	●	●						
Hydrogen peroxide, wat.		20	●	●	●	●	●	●	●	●	●		◑		●	●	●
Zinc salts, wat.		20	●	●	●	●	●	●	●	●	●		○	◑		●	●
Stannous chloride		20	●	●	●	●	●	●	●	●	●			◑	●	●	●

● resistant
◑ conditionally resistant
○ not resistant
*** for individual case, please verify**

each = each concentration
colts. = cold saturated
wat. = watery, liquid

The information mentioned in this summary is given to the best of our own knowledge and based upon our long standing experience. But we would like to direct your attention to the fact, that the information is given without obligation. A final judgement can only be made in practice.

Chemical Resistance

Substance
Organic chemicals

	Concentration (%)	Temperature up to ... °C	PVC									PE	PUR	H	Silicone	Neoprene Rubber	HELU-FLON®
			JZ-500/600/750, JB, OZ-BL, PVC-flat, TRONIC (LiYY), SUPERTRONIC-PVC	Li-TPC-Y, PAAR-CY-OZ, CEI 20-22, Bus cables PVC, RD-Y(St)Y, RE-2Y(St)Yv, Data cables PVC	JZ-HF, JZ-HF-CY, JZ-603, JZ-603-CY, N05W5-F, H05W5-F, H 05WC4V5-K	Trago, Lift-2S, JZ 604 TC, JZ 604-FCY TC, JZ 604-YCY TC	JZ-602, JZ-602-CY, TRONIC-CY, LiYCY, JZ-602 RC, PAAR-TRONIC-CY, SY-JZ, SY-JB, JZ-602 RC-CY	F-CY-JZ, Y-CY-JZ, JZ-HF-CY, J-Y(St)Y, J-YY, JE-Y(St)Y S-YY, S-Y(St)Y, TOPFLEX-PVC	ESUY, LifY, PVC-Single cores, EDV-PIMF-CY ESY, LiFDY, TUBEFLEX/-CY	H 05 V-K, H 07 V-K, H 03 W-F, H05 W-F	HELUTHERM 120, HELUTHERM 105, H05V2-K, H07V2-K, FIVENORM	Coaxial-cable (PE), L2-BUS-cable (PE) A-2Y(L)2Y, A-2YF(L)2Y, HELUCOM®... 2Y	PURö-JZ, PURö-JZ-HF, TOPFLEX-PUR, ROBOFLEX, SUPERTRONIC-PUR, MULTIFLEX-PUR, TOPSERV®	J-H(St)H, Security Cable ..E 30/E 90, HELUCOM-H JZ-500-HMH/MXMHX, N2XH, RG-H	SiHF, SiHF/GL-P, SiF, SiD, SiFF, SiF/GL, SiD/GL, SiHF-C-Si, FZ-LS, FZ-LSi	Neoprene-Round/Flat, NSHTÖU, AIRPORT 400 Hz H01N2-D/E, H 05/H 07-, A 05/A 07 RN-F	FEP-6Y, PTFE-5Y, Compensating cables-FEP
Aceton		20	○	○	○	○	○	○	○	○	○		○		◑		●
Formic acid	30	20	○	○	○	○	○	○	○	○	○	●	○			●	●
Aniline		50	○	○	○	○	○	○	○	○	○		○				●
Petrol		20	○	○	○	○	○	○	○	○	○	○	◑[1]	○	◑	○	●
Benzene		50	○	○	○	○	○	○	○	○	○		○		○		
Succinic acid, wat.	colds.	20	●	●	●	●	●	●	●	●	●						●
Brake fluid		100	◑	◑	◑	◑	◑	◑	◑	◑	◑		○				
Butane		20	●	●	●	●	●	●	●	●	●				◑		
Butter		50	●	●	●	●	●	●	●	●	●		◑		●		●
Chlorobenze		30	○	○	○	○	○	○	○	○	○		○		○		●
Chloroprene		20	○	○	○	○	○	○	○	○	○		○		○		●
Diethylether		20	◑	◑	◑	◑	◑	◑	◑	◑	◑		●		○		
Diethylprestone		50	●	●	●	●	●	●	●	●	●		●		●		
Diesel oil			○	○	○	○	○	○	○	○	○		◑	○	◑		●
Glacial acetic acid	20	50	○	○	○	○	○	○	○	○	○		○		●		●
Acetic acid	20		◑	◑	◑	◑	◑	◑	◑	◑	◑	◑		○			●
Ethyl alcohol	100	20	○	○	○	○	○	○	○	○	○	●	◑	○	●	●	●
Ethyl chloride		50	○	○	○	○	○	○	○	○	○		○		◑		
Ethylene glycol		100	◑	◑	◑	◑	◑	◑	◑	◑	◑		○		●		●
Freon		20	○	○	○	○	○	○	○	○	○		◑		○		
Gear oil		100	●	●	●	●	●	●	●	●	●		◑		◑		
Glycerin	each	50	●	●	●	●	●	●	●	●	●		●		●		
Hydraulic oil		20	○	○	○	○	○	○	○	○	○		◑*	○	○		●
Isopropyl alcohol	100	20	○	○	○	○	○	○	○	○	○	●	◑*		◑	◑	●
Kerosene		20											◑				●
Machine oil		20	◑	◑	●	◑	◑	◑	◑	◑	◑		◑	○	●	◑	●
Methanol		20	○	○	○	○	○	○	○	○	○		○		●		
Methyl alcohol	100		◑	◑	◑	◑	◑	◑	◑	◑	◑	●	◑	◑		◑	●
Methylen chloride		20	○	○	○	○	○	○	○	○	○		○		○		●
Lactic acid	10		○	○	○	○	○	○	○	○	○		○		○		●
Mineral oil													◑*				
Motor oil		120	○	○	●	○	○	○	○	○	○		○		●		
Olive oil		50	●	●	●	●	●	●	●		●	●	●		●		●
Oxal acid	colds.	20	●	●	●	●	●	●	●	●	●	◑		◑		◑	●
Paraffin oil													●				
Vegetable oils			●	●	●	●	●	●	●	●	●	●	●	○		◑	●
Vegetable fats			●	●	●	●	●	●	●	●	●	●	●	○		◑	●
Cutting oil			◑	◑	◑	◑	◑	◑	◑	◑	◑		●*	○	●	◑	●
Tar acid		20	●	●	●	●	●	●	●	●	●		○				
Carbon tetrachloride	100	20	●	●	●	●	●	●	●	●	●		○		○		
Toluene															○		●
Trichloroethylene	100	20	○	○	○	○	○	○	○	○	○				○		●
Tartaric acid, wat.			●	●	●	●	●	●	●	●	●			◑	●	●	●
Citric acid			●	●	●	●	●	●	●	●	●			◑	●	●	●

● resistant
◑ conditionally resistant
○ not resistant
* **for individual case, please verify**
[1] PUR-material is resitant

each = each concentration
colds. = cold saturated
wat. = watery, liquid

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