

Resistance against chemical agents	POLYAMIDE PA	POLYPROPYLENE PP	POLYETHYLENE PE	ACETAL POM	AISI 303 AISI 304	AISI 316	NICKEL PLATED BRASS	NBR RUBBER	VITON RUBBER
CHEMICAL AGENT	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C
PHENOL	—	+			10 +	+		—	+
PHOSFORIC ACID	10 —	85 +	95 +	10 —	10 —	50 /	—	20 /	85 +
POTASSIUM HYDROXIDE	10 +				50 +	50 +		/	+
SEA WATER	+	+	+	/	+	+	+	+	+
SILICONE OIL	+	+						+	+
SILVER NITRATE	+	20 +			60 /			/	+
SOAP AND WATER	+	+	+	+	+			+	
SODIUM CARBONATE	10 +	Sat. +	+	+	5 +	100 +		+	+
SODIUM CHLORIDE	10 +	Sat. +	+	+	5 +	/	+	+	Sat. +
SODIUM HYDROXIDE	10 +	30 +	+	10 +	—		+	/	
SODIUM HYPOCHLORITE	+	20 +	+	—	—			—	5 +
SODIUM SILICATE	+				100 +	100 +		+	
SODIUM SULPHATE	10 +	Sat. +	+	+	5 +	100 +		+	+
SOFT DRINKS	+	+	+	+	+		+	+	
SUDS	+	+						+	+
SULPHURIC ACID	10 —	98 +	40 /	40 —	10 —	100 +	+	—	95 +
TARTARIC ACID	+	10 +	+	30 /	10 +	50 +	—	+	+
TETRALINE	+	—						—	+
TINCTURE OF IODINE	—	+	+	+			—	/	
TRANSFORMER OIL	+	/						+	+
TRICHLOROETHYLENE	/	/	+	—	+		+	—	+
TURPENTINE	/	—	—	—	+			—	
VASELINE	+	+	/	+				+	+
VEGETABLE JUICES	+	+	+	+	+			+	
VEGETABLE OILS	+	+	+	+	+			+	
VINEGAR	+	+	+	+	+		+	/	—
WHISKY	+	+	+	+	+		+	+	+
WINE	+	+	+	+	+		+	+	+
XIOL	+	—	/	+	+		/	—	+
ZINC CHLORIDE	10 /	20 +			10 —	/		+	Sat. +

Abbreviations: Sat. = saturated.

Legend..

+ = Good resistance.
 / = Fairly good resistance (limited use depending on working conditions).
 — = Poor resistance (not recommended).
 N.B. Where tests have not been carried out the spaces are left blank.

The data shown in this table..

are taken from laboratory tests, performed on unstrained test samples. It should be considered as purely indicative since material behaviour under real working conditions depends on different factors: temperature, concentration of the chemical agent, quick or long-lasting effect of the chemical agent.

Operating temperatures



		Operating temperatures (°C)		
		contact with air		contact with hot water
Material	Description	Min	Max	Max
PA	Polyamid	0	+ 80	+ 65
PA FV	Reinforced polyamid	- 5	+ 120	+ 100
PP	Polypropylene	+ 5	+ 105	+ 105
PP FV	Reinforced polypropylene	+ 5	+ 115	+ 115
PE (UHMWPE)	Polyethylene	- 40	+ 80	+ 70
POM	Acetal	- 40	+ 80	+ 65
Rex-LF®	Acetal	- 40	+ 80	+ 65
AISI 303 - AISI 304	Austenitic stainless steel (18/8)	- 70	+ 430	+ 120
Fe Zn	Zinc plated steel	- 40	+ 180	—
OT	Nickel plated brass	- 40	+ 180	+ 120