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Vetter resistance list

Convincing with transparency

Please note: The information in our resistance list is based on laboratory tests and empirical values. A material reacts faster to chemicals under expansion than at rest. That means the greater the expansion, the lower the chemical resistance. In addition, the resistance also depends on the thickness of the material, which influences diffusion. Furthermore, other variable factors, such as temperature, intensity or exposure time, also have an influence on the durability.

The values given may therefore differ in the concrete application scenario and are to be understood here only as an indication. We are glad to provide material samples for your own investigations of the chemical resistance.

Key

\+ resistant

– not resistant

o conditionally resistant

n.d. no data

Temperature resistance

Products	Cold resistance	Cold flexible	Heat resistance, long term	Heat resistance, short time
Mini Test Sealing Bags Pipe Sealing Bags 1.5 bar (21.75 psi) Pipe Sealing Bags 2.5 bar (36.25 psi) Test Sealing Bags 1.5 bar (21.75 psi) Test Sealing Bags 2.5 bar (36.25 psi) Bypass Bags 1.5 bar (21.75 psi) Pipe Sealing Bags CR High Pressure Pipe Sealing Bags Test Sealing Bags for Gullies Protection Sleeve Lateral packers Flexible packers	–40 °C	–20 °C	+90 °C	+115 °C
Pipe Sealing Bags 0.5 bar (7.25 psi)	–40 °C	–20 °C	+50 °C	--
Test Sealing Bags 0.5 bar (7.25 psi)	–30 °C	--	+70 °C	--
Cone Bags 1 bar (14.5 psi)	–20 °C	--	+55 °C	--
Controller: Aluminium- and fitting	–20 °C	--	--	+55 °C
Rubber hoses	–40 °C	–30 °C	+90 °C	--

Material list

Products	Material	Support material
Mini Pipe Sealing Bags High Pressure Pipe Sealing Bags Protection Sleeve Lateral packers Flexible packers	NR	Nylon cord
Mini Test Sealing Bags	NR	NR
Pipe Sealing Bags 1.5 bar (21.75 psi) Pipe Sealing Bags 2.5 bar (36.25 psi) Test Sealing Bags 1.5 bar (21.75 psi) Test Sealing Bags 2.5 bar (36.25 psi) Bypass Bags 1.5 bar (21.75 psi)	NR	Nylon cord/Aramide
Pipe Sealing Bags 0.5 bar (7.25 psi) Test Sealing Bags 0.5 bar (7.25 psi)	CR/NR	Nylon cord/Aramide
Pipe Sealing Bags CR Cone Bags 1 bar (14.5 psi) Test Sealing Bags for Gullies	CR	Nylon cord
Inflation hoses and air supply hoses (outside)	EPDM	Polyester

DISTRIBUITO DA
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We are glad to provide material samples for your own investigations of the chemical resistance.

Resistance list*

Material designation	CR	NR	EPDM
Aceton	o	+	–
Acetylen	+	+	–
Alum, aqueous	+	+	–
Aluminium chloride	+	+	+
Aniline	–	n.d.	n.d.
ASTM oil 1	o	–	–
Petrol	o	–	n.d.
Benzene	–	–	–
Boracic acid	+	+	+
Bromine (moist)	–	–	–
Butytric acid	–	–	n.d.
Chlorine gas (moist)	–	–	n.d.
Chlorine, wet	o	–	o
Diesel fuel	o	–	–
Iron chloride	+	+	+
Petroleum	o	–	–
Acetic acid	o	+	o
Fatty acids	+	o	–
Formaldehyde	+	+	+
Glucose	+	+	+
Heating oil	+	–	–
Potassium chloride	+	+	+
Calcium chloride	+	+	+
Calcium nitrate	+	+	+
Carbon dioxide	+	+	+
Carbon monoxide	+	+	+
Copper sulphate	+	+	+
Glue	+	+	+
Methyl chloride	–	–	o
Seawater	+	+	n.d.
Mineral oils	+	–	–
Sodium carbonate	+	+	–
Ozone	+	–	+
Paraffin	+	–	–
Perchloric acid	o	n.d.	+
Phenol (aqueous)	–	–	+
Phosphoric acid (concentrated)	–	–	–
Mercury	+	+	+
Nitric acid (fuming)	–	–	–
Sulphur dioxide (dry)	–	o	n.d.
Sulphuric acid (50%)	+	–	–
Nitrogen	+	+	+
Carbon tetrachloride	–	–	–
Animal fats	+	–	+
Toluene	–	–	–

** Subject to change without notice | + resistant | o conditionally resistant | – not resistant | n.d. no data*