

FLUORINATED MATERIALS FOR THE CHEMICAL INDUSTRY



Chemical products are needed as basic materials for further processing in many different industries. This makes the chemical segment one of the most important sectors of the economy. Freudenberg Sealing Technologies offers sealing solutions from an extensive fluoroelastomer portfolio that are aimed at enabling smooth and safe processes. This includes high-performance

materials such as FKM, Simriz® and Fluoroprene® XP. Depending on the requirement profile, these can be used in different applications. Not only extreme temperatures and pressures, but also aggressive media can pose a challenge for seals. You'll find a detailed overview of our entire portfolio of fluorinated materials on page 2.

EVERYTHING FROM A SINGLE SOURCE

Our expertise in fluorinated materials for the chemical industry – your benefits

MATERIAL EXPERTISE



- Comprehensive fluoroelastomer portfolio for a wide range of applications
- Very good chemical and thermal resistance
- Specially compounded FKM materials for special applications
- Simriz® materials based on FFKM for extreme application conditions

PRODUCT AND MANUFACTURING EXPERTISE



- O-rings available in inch (US standard) and metric sizes
- Round, oval, square, semicircular or x-shaped cross-sections available
- Special customer-specific shapes can be realized on the basis of new molding tools
- Surface-treated special designs possible, such as non-stick and lubricant treatments, lacquering, coatings and nanotechnological modification for function and application optimization
- Good elasticity and easy assembly, even with distorted flange connections

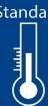





CONSULTING AND SERVICE EXPERTISE



- Profound advice on selecting materials
- Resistance tests in the application medium possible if required
- Optimization of the sealing design
- Rapid delivery capability thanks to worldwide presence and extensive stockholding
- Individual packaging concepts (single and kit packaging, customized packaging bags and labels)
- Complete traceability

MATERIAL PORTFOLIO FOR O-RINGS MADE OF FLUORINATED MATERIALS

On request, we can also manufacture customized products for you from these materials.

APPLICATION AREA	MATERIAL	COLOR	CROSS-LINKING	CHARACTERISTICS	OPERATING TEMPERATURE RANGE
	70 FKM 576	black	bisphenolic	FKM standard material	-15 °C to +200 °C / +5 °F to +392 °F
	70 FKM 598	green	bisphenolic	FKM standard material	-15 °C to +200 °C / +5 °F to +392 °F
	80 FKM 233877	black	peroxide	Improved media resistance (pH3 to +150 °C / +302 °F)	-15 °C to +200 °C / +5 °F to +392 °F
	75 Fluoroprene® XP 40	blue	peroxide	<ul style="list-style-type: none"> Highly fluorinated FKM materials with optimized media resistance Suited for high and low pH values 	-15 °C to +200 °C / +5 °F to +392 °F
	75 Fluoroprene® XP 48				
	70 FKM 134347	black	peroxide	Suited for particularly low temperatures	-30 °C to +200 °C / -22 °F to +392 °F
	70 FKM 236702				
	80 FKM 234491	black	peroxide	Suited for particularly low temperatures	-40 °C to +200 °C / -40 °F to +392 °F
	70 FKM 173104	black	bisphenolic	Suited for particularly high temperatures	-15 °C to +230 °C / +5 °F to +446 °F
	75 FKM 606	black	peroxide	<ul style="list-style-type: none"> Suited for particularly high temperatures Improved media resistance (pH3 to +125 °C / +257 °F) 	-15 °C to +230 °C / +5 °F to +446 °F
	75 FKM 607				
	90 FKM 235192	black	peroxide	Suited for particularly high pressures and pressure fluctuations	-15 °C to +210 °C / +5 °F to +410 °F
	90 FKM 235193	black	peroxide	<ul style="list-style-type: none"> Suited for particularly high pressures and pressure fluctuations Suited for particularly low temperatures 	-30 °C to +200 °C / -22 °F to +392 °F
	75 Simriz® 491	black	peroxide	<ul style="list-style-type: none"> Excellent media resistance Suited for particularly high temperatures Improved low-temperature compatibility 	-20 °C to +230 °C / -4 °F to +446 °F
	75 Simriz® 495	black	peroxide	<ul style="list-style-type: none"> Excellent media resistance Suited for particularly high temperatures 	-15 °C to +230 °C / +5 °F to +446 °F

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