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FFKM Perfluoroelastomer Seals

FFKM O-rings are exceptionally resistant to degradation by aggressive fluids and gases. FFKM also has excellent resistance to extreme temperatures (-10°C to $+260^{\circ}\text{C}$). Some special FFKM compounds can operate beyond 300°C .

The chemical and heat resistance of FFKM is similar to PTFE. It combines the positive properties of a PTFE O-ring with the elastic behaviour of an FKM O-ring.

FFKM O-rings offer resistance to almost all chemicals. These include inorganic acids, alkalines, ketones, esters, alcohols, fuels and hot water. They can

also be used for applications in aggressive chemical environments. Typical applications for FFKM O-rings include Chemical, Aerospace, Oil, High Vacuum Technology and Semi-conductor industries.

Our Standard FFKM O-rings provide outstanding heat resistance with

service temperatures of -10°C to 310°C .

Eastern Seals offer direct FFKM equivalents to Kalrez[®] Simrez[®] Perlast[®] Chemraz[®] grades. Please contact us to order FFKM O-Rings, or to find out more information.

FFKM Perfluoroelastomer Seals

Colour	Temperature Range	Hardness	Notes
Black	-30°C to +230°C	75	Broad chemical resistance. Used as a standard compound in a variety of applications. This compound meets the FDA requirements according to CFR 177.2600 in regard to global migration. Low temperature flexibility.
WHITE	-30°C to +230°C	75	Broad chemical resistance. Used as a standard compound in a variety of applications. This compound meet the FDA requirements according to CFR 177.2600 in regard to global migration. Low temperature flexibility.
BLACK	-40°C to + 230°C continuous (+260°C Peak)	75	High chemical resistance, in particular to oilfield fluid. Good sealing performance when operating conditions change during the process lifetime. Very low temperature capability.
BLACK	-40°C to + 230°C continuous (+260°C Peak)	90	Developed for Oil and Gas Industries. High chemical resistance. Very low temperature capability.
BLACK	-45°C to + 250°C continuous	90	High chemical resistance and low temperature capability. Developed for the Oil & gas Industry. Explosive decompression resistant, tested to Norsok M-710.
BLACK	-10°C to + 230°C continuous (+260°C Peak)	75	An upper chemical resistant material, developed for very demanding sealing applications. Hot amines and steam resistant.
IVORY	-10°C to + 230°C continuous (260°C Peak)	75	Very high chemical resistance and developed for very demanding sealing applications. Resistant to hot amines.
BLACK	-10°C to + 230°C continuous (260°C Peak)	90	High chemical resistance; Developed for the Oil & gas Industry. Explosive decompression resistant (Norsok M-710 Annex B approved).
BEIGE TRANSLUCENT	-5°C to +300°C continuous (+320°C Peak)	75	Developed for Semicon Industry and suitable for dry and wet applications. This is a high purity compound without filler. Outstanding resistance to aggressive chemicals and high temperature conditions.
BLACK	-10°C to +230°C	75	Used as a standard compound in a variety of applications. Meets the extractive requirements of: FDA 21 CFR 177.2600 & 177.2400, EC1935/2004 & USP CLASS VI & ADI FREE.
WHITE	-10°C to +230°C	75	Meets the extractive requirements of: FDA 21CFR177.2600 & 177.2400. EC 1935/2004 (UE N°10/2011 regulation)
BLACK	-10°C to + 230°C	70	For General use with outstanding resistance to aggressive media
BLACK	-10°C to + 230°C continuous (260°C Peak)	80	For general use with outstanding resistance to aggressive media.
WHITE	-10°C to +230°C continuous (260°C Peak)	70	Outstanding resistance to aggressive media. Developed for food and pharmaceutical processing, automated CIP and SIP systems. In accordance with USP Class VI and FDA 21 CFR 177.2600 requirements.
WHITE	-10°C to + 230°C continuous (260°C Peak)	80	Developed for food and pharmaceutical processing, automated CIP and SIP systems. In accordance with FDA 21 CFR 177.2600 requirements.
BLACK	-10°C to + 230°C continuous (260°C Peak)	90	For General use with outstanding resistance to aggressive media.
WHITE	-10°C to + 230°C continuous (260°C Peak)	60	General use - with high chemical resistance.

FFKM Perfluoroelastomer Seals

Colour	Temperature Range	Hardness	Notes
BLACK	-10°C to + 230°C continuous (260°C Peak)	80	Developed for food and pharmaceutical processing, automated CIP and SIP systems and is FDA compliant to 21 CFR 177.2600. Offers outstanding resistance to aggressive media.
BLACK	-10°C to + 230°C continuous (260°C Peak)	75	High chemical resistance, particularly in hydrofluoric acid (HF). Optimum performance in photovoltaic (PV) processing environments. Low particle generation.
TRANSLUCENT BROWN	-20°C to +275°C continuous use (290°C Peak)	65	Developed for Semicon, dry and wet applications, this is a high purity compound without filler. Outstanding resistance to aggressive chemicals and high temperature conditions.
TRANSLUCENT BROWN	-10°C to + 275°C continuous (+290°C Peak)	75	Suitable for all semiconductor industry processes. Good mechanical properties and high purity. Extremely low outgassing properties.
BLACK	-10°C to + 230°C continuous (260°C Peak)	60	For General use offering Universal Chemical Resistance
BLACK	-5°C to +230°C continuous (+260°C Peak)	75	Outstanding resistance to aggressive media. Optimised formulation for the largest range of applications.
BLACK	-5°C to + 275°C (continuous operating temperature)	75	Designed for mid – high temperature chemical resistant applications. Excellent compression set and long term performance. In compliance with FDA and certified as USP class VI for pharmaceutical industry.
WHITE	- 10°C to + 230°C continuous (+ 260°C Peak)	70	Specific compound for Quad Ring / X Rings. Developed for food and pharmaceutical processing, automated CIP and SIP systems. In accordance with FDA 21 CFR 177.2600 requirements.
BLACK	-10°C to + 300°C continuous (+330°C Peak)	75	This compound is recommended for General use for high temperatures. It has broad chemical resistance and excellent steam resistance.
WHITE	-5°C to + 300°C continuous (+320°C Peak)	60	Low sealing force applications in semiconductor thermal processes. Low outgassing properties at elevated temperatures.
BLACK	-10°C to +300°C continuous use (330°C Peak)	70	This compound is recommended for General use for high temperatures. It has broad chemical resistance and excellent steam resistance.
WHITE	-5°C to + 300°C (+330°C/1000 hours)	70	For high upper temperatures with broad chemical resistance. Developed for food and pharmaceutical processing, Automated CIP and SIP systems in accordance with USP Class VI and FDA 21 CFR 177.2600 requirements.
BLACK	-10°C to + 300°C continuous (+330°C Peak)	90	Outstanding at high temperatures, use with aggressive chemicals, steam resistance and low compression set at high temperatures.
LIGHT GREY	-10°C to + 300°C continuous (+330°C Peak)	80	For high upper temperatures with broad chemical resistance. Developed for various semiconductor processes, very low extractable metal ions.
BLACK	-40°C to +230°C	90	Offers excellent chemical resistance and outstanding performance at low temperature. This compound is ideal for use in oil & gas field, where resistance to explosive decompression is essential.