SIMRIZ® 134

Designed for thermal stability and nearly universal protection against chemical attack, Freudenberg–NOK's proprietary family of Simriz® perfluoroelastomer compounds offer premier sealing performance. Simriz® compounds approach PTFE chemical resistance while resisting high temperatures up to 325°C.

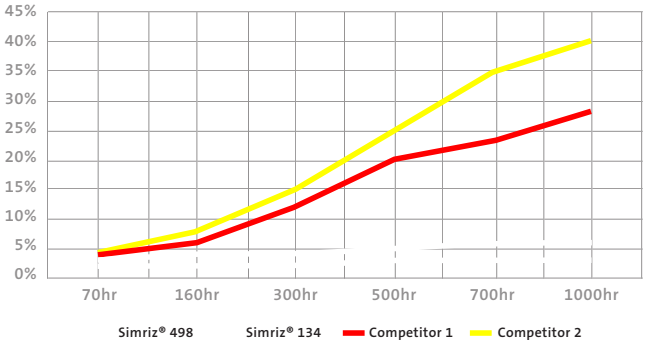
Freudenberg-NOK is the only vertically integrated supplier of perfluoroelastomer.
Traceable - Accountable – Customized - Controlled.

Simriz® 134 performs well in a wide variety of harsh chemicals. Its outstanding resistance against rapid gas decompression (RGD) makes Simriz® 134 the perfect match for high pressure gas applications.

NORSOK M-710 (rev. 2) Certified

Test Conditions	
Temperature	100°C (212°F)
Gas	90mol% Methane (CH_4) 10mol% Carbon Dioxide (CO_2)
Pressure Gradient	15MPa
Cycling	10 Cycles
Test Results	
Rating	No internal cracks No Blisters No Holes

Steam Resistance at 160°C/320°F



VALUES FOR THE CUSTOMER

- Combines RGD and broad chemical resistance as well as a high thermal stability
- Withstands extremely high pressure as well as steam sterilization and autoclaving
- NORSOK M710 rev.2 certified
- Without equal. Patented cross-linking system provides superior performance beyond the limits of every other competitor FFKM product
- Demonstrated performance. Successfully used in many customer applications
- Vertically integrated. Freudenberg-NOK Sealing Technologies is the only vertically integrated O-ring manufacturer in the world
- Cost efficient. As the only vertically integrated O-ring manufacturer down to the monomers Freudenberg-NOK Sealing Technologies is able to provide the most cost efficient FFKM O-rings

TYPICAL APPLICATIONS

- Pumps
- Valves
- Oilfield completion equipment
- Perforating equipment
- Drilling equipment
- Intervention tools
- Compressors

FEATURES AND BENEFITS

Mechanical Properties	
Hardness (Shore) DIN ISO 7619-1, Shore A, 23°C	90
Temp. Range in °C	-15°C to +230°C
Temp. Range in °F	+5°F to +446°F
Tensile Strength (psi)	3118
Tensile Strength (MPa)	21.5
Elongation (%)	160
Compression Set (%) 70hr at 204°C (400°F) per ASTM D395 - Method B	23

Chemical Environment	
Hot Water / Steam	++
Dry Heat	+
Organic Acid (e.g. Acetic Acid)	-
Inorganic Acids (e.g. Nitric Acid)	-
Alkalis / Bases	++
Acrylic or Vinyl Monomers	++
Amines	++
Hot Amines	++
Ketones	++
Ester	++
Ethers	++
Aldehydes	++
Hydrocarbons	++
Sour Gas (e.g. Hydrogen Sulfide, Peroxide)	++
Silanes and Chlorosilanes	++
Hot Lubricants	++
Strong Oxidizers (e.g. Nitric Acid, O_3, ClO_3)	-
Fluorinated Fluids	++
Synthetic Oils	++
Alcohols	++

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