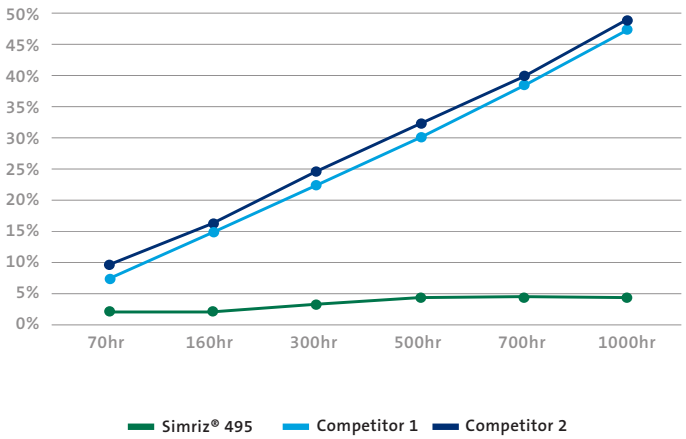
SIMRIZ® 495 GENERAL PURPOSE FFKM MATERIAL

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® 495 performs well in a wide variety of harsh chemicals as well as under overheated steam and hot water conditions. Especially its outstanding performance in strong acids and oxidizers makes Simriz® 495 the perfect match for nearly every application in the chemical process industry.

Volume Swelling 69% Nitric Acid at 80°C/176°F



VALUES FOR THE CUSTOMER

- Broad chemical resistance in a large number of harsh chemical environments
- Outstanding performance under steam and hot water conditions
- High resistance against strong acids and oxidizers
- 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
- Paint Spray Equipment
- Mechanical Seals
- Dispenser Systems
- Vacuum Components

FEATURES AND BENEFITS

Mechanical Properties	
Hardness (Shore) DIN ISO 7619-1, Shore A, 23°C	75
Temp. Range in °C	-7°C to +230°C
Temp. Range in °F	+20°F to +446°F
Tensile Strength (psi)	2600
Tensile Strength (MPa)	18
Elongation (%)	160
Compression Set (%) 70hr at 204°C (400°F) per ASTM D395 - Method B"	26

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	++
Adelhydes	++
Hydrocarbons	++
Sour Gas (e.g. Hydrogen Sulfide, Peroxide)	++
Silanes and Chlorosilanes	++
Hot Lubricants	++
Strong Oxidizers (e.g. Nitric Acid, O3, ClO3)	++
Fluorinated Fluids	++
Synthetic Oils	++
Alcohols	++

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