

M SEALS ZC401

High Temperature Water / Steam Resistant FFKM (Perfluoroelastomer)



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



High Service Temperature



Suitable Hot Water / Steam

Description

This FFKM compound has been developed to meet severe service requirements where application conditions may involve high temperature use and/or sealing of water and steam. The compound has similar chemical resistance to that of PTFE while providing elastomeric properties comparable to more standard Fluorocarbon rubbers.

ZC401 provides excellent temperature resistance up to +300°C and is a good choice for applications where other elastomers are not suitable.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Hardness	ISO 48	IRHD	78
Tensile Strength	ISO 37	MPa	21.2
Modulus @ 100%	ISO 37	MPa	12.9
Elongation at break	ISO 37	%	165
Tear Strength	ISO 34	N/mm	25.1
Specific Gravity	ISO 2781	g/cm ³	2.00
Compression Set Value in Air (24 Hours @ 204°C – 25% Strain)	ISO 815		15.3
Minimum service temperature		°C	-15
Maximum service temperature		°C	+300

Main Characteristics

- Developed for high temperature water and steam
- Superb thermal resistance
- Broad chemical resistance similar to PTFE
- Good compression set resistance
- Excellent performance in harsh conditions

Typical Products

- O-Ring Seals
- X-Ring Seals
- Piston T-Seals
- Rod T-Seals
- Custom parts