

M SEALS ZC501

Norsok M-710 Approved RGD Resistant FFKM
(Perfluoroelastomer)



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



Norsok M-710 Approved



High Service Temperature

Description

This compound has been developed to meet the severe service requirements of the Oil & Gas industry. The compound has similar chemical resistance to that of PTFE while providing elastomeric properties comparable to more standard Fluorocarbon rubbers.

ZC501 has been modified to provide RGD/ED (Rapid Gas Decompression/Explosive Decompression) resistance and to meet the requirements of the Norsok M-710 Rev 2 standard while offering optimum resistance to thermal cycling.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 2781	g/cm ³	1.96
Hardness	ISO 48	IRHD	89
Tensile Strength	ISO 37	MPa	18.9
Elongation at break	ISO 37	%	93
Compression set (24 Hours @ 204°C – 25% Strain)	ISO 815	%	26.5
Temperature retraction TR10	ISO 2921	°C	-4
Minimum service temperature		°C	-19
Maximum service temperature		°C	+230

Norsok M-710 Rev 2 – RGD resistance in 10% CO ₂ @ 150 Bar and 100°C		
Compound	Summary rating	Conclusion
ZC501	1 0 0 0	PASS

Main Characteristics

- Norsok M-710 Rev 2 Approved
- 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