

# M SEALS ZC005

## Universal Grade FFKM (Perfluoroelastomer)

### MATERIAL DATA SHEET (Version 6.0 – 05.2022)



High Temperature



Chemical Resistance

#### Description

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

ZC005 provides excellent temperature resistance up to +260°C and is a good choice for applications where other elastomers may not be suitable, but should not be utilised for any applications involving molten alkali metals.

#### Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Hardness	ISO 48	IRHD	77
Tensile Strength	ISO 37	MPa	16.4
Elongation at break	ISO 37	%	159
Tear Strength	ISO 34	N/mm	15.6
Specific Gravity	ISO 2781	g/cm <sup>3</sup>	2.03
Compression Set Value in Air (24 Hours @ 204°C – 25% Strain)	ISO 815		24.4
Minimum service temperature		°C	-15
Maximum service temperature		°C	+260

#### Main Characteristics

- Developed for high temperature use
- Superb thermal resistance
- Broad chemical resistance similar to PTFE
- Excellent performance in harsh conditions

#### Typical Products

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