

# M SEALS ZC010

Universal RGD Resistant FFKM (Perfluoroelastomer)



## MATERIAL DATA SHEET (Version 6.0 – 05.2022)



High Temperature

### Description

This universal FFKM compound has been developed to meet service requirements where application conditions may involve high temperature use and/or sealing of high pressure gas. The compound has been modified to provide RGD (Rapid Gas Decompression) resistance and offers similar chemical resistance to that of PTFE while providing elastomeric properties comparable to more standard Fluorocarbon rubbers.

ZC010 provides excellent temperature resistance up to +260°C and is a good choice for applications where other elastomers may not be suitable.

### Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Hardness	ISO 48	IRHD	92
Tensile Strength	ISO 37	MPa	16.2
Elongation at break	ISO 37	%	89
Tear Strength	ISO 34	N/mm	33.8
Specific Gravity	ISO 2781	g/cm <sup>3</sup>	1.87
Compression Set Value in Air (24 Hours @ 204°C – 25% Strain)	ISO 815		31.8
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
- RGD Resistant
- Excellent performance in harsh conditions

### Typical Products

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

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: [sales.esd@m-seals.co.uk](mailto:sales.esd@m-seals.co.uk) . Web: [www.m-seals.com](http://www.m-seals.com)

M Seals believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however M Seals makes no warranty, expressed or implied, that parts manufactured from this / and or any other material will perform satisfactorily in the customers application. It is the customers responsibility to thoroughly test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application. The information and data contained herein are based on standard test pieces according to the corresponding ISO, DIN & ASTM standards and cannot be directly related to finished seals, gaskets or other sealing products and should be used only as a general guide.