

## MC203 Silicone 75 Shore FDA Red

<b>MATERIAL</b>	Silicone 75 Shore FDA and 3A Red ASTM D 2000 M2GE 707 A1 9B37E036
<b>DESCRIPTION</b>	Low compression set Silicone O ring extrusion grade material FDA compliant to CFR 21 177-2600 & European regulations EC1935/2004 3-A 18-03 Class 1 compliant (except for tensile strength)
<b>APPLICATION</b>	This material has excellent thermal resistance to both high and low temperatures, is good with oxygen and ozone attack and has a very high permeability resistance.
<b>TEMPERATURE</b>	Low temperature service limit -76°F (-60°C) Upper temperature continuous service limit +446°F (+230°C)
<b>PRODUCTS</b>	Encapsulated Seals Extrusions (cords/profiles/tubes) Hot Vulcanised O rings & Profiles

## PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.58
Durometer shore A (slab)	ASTM D2240	74
Elongation % (Dumbbell)	ASTM D412	159
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1174 (8.1)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	9.6

### HEAT AGEING 70h @ 437°F (225°C) ASTM D573

Durometer change points shore A	-1
Elongation change %	-20
Tensile strength change Psi (Mpa)	-217 (-1.5)
Weight loss grams	0

### FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) ASTM D471

Volume change %	+29
Durometer change points shore A	-20
Elongation change %	0
Tensile strength change Psi (Mpa)	-218 (-1.5)