

VMQ Silicone 75 714206 red - Technical Data Sheet

1. Introduction

Silicone compound 714206 red is a low compression set Silicone O-Ring material, moulding grade. In conformity with FDA 21 CFR 177.2600

2. Product Description

Chemical Composition :	Low Compression Set Silicone
Physical form :	O-Rings / Mouldings / Vulc-O-Rings
Colour :	Red
Storage stability * :	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Specific Weight	ISO 2781	1,56
Hardness	ISO 868	75° ± 5° Shore A
Tensile Strength at break	ISO 37	9,5 MPa
Elongation at break	ISO 37	160%
Compression Set 22h/175°C, on slab	ISO 815	7,46%
Heat Ageing, 70h/225°C	ASTM D 573	
Hardness Change		-1°
Elongation Change		-24%
Tensile Strength Change		-2 MPa
Weight loss		0,14 gr
Immersion in Oil n°3, 70h/150°C	ISO 1817	
Volume Change		-32%
Hardness Change		-18°
Elongation Change		-6,9%
Tensile Strength Change		-1,9 MPa

4. Temperature Resistance

- 60° to +220°C

5. Chemical Resistance

SIP	: very good
CIP	: bad
Heat Aging	: excellent
Sterilisation	: excellent

6. Advantages

- Excellent thermal resistance to both high and low temperatures.
- Good with ozone and oxygen attack
- Very high permeability resistance

7. Other Information

- In conformity with FDA 21 CFR 177.2600. Certificates on demand.
- This compound is ADI (Animal Derived Ingredient Free).

8. Other Information on Vulc-O-Rings

- Tolerances standard on cross section to ISO 3302.
- Tolerances on O-Ring inside diameter according ISO 3302 up to diam. 160 mm. Bigger diameters tolerances ±0,5%.
- Smooth surface.
- Can be produced to ±0,05 mm tolerance in cross section.

