VMQ Silicone 75 714006 red Vulc-O-Ring - Technical Data Sheet

1. Introduction

Silicone compound 714006 red is a low compression set Silicone O-Ring material, extrusion grade. In conformity with FDA 21 CFR 177.2600 and with 3-A 18-03 Class 1 (except for tensile strength).

2. Product Description

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

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Specific Weight	ISO 2781	1,58
Hardness	ISI 868	75° ± 5° Shore A
Tensile Strength at break	ISO 37	7,5 MPa
Elongation at break	ISO 37	165%
Compression Set	ISO 815	
22h/175°C, on slab		9,2%
Heat Ageing, 70h/225°C	ASTM D 573	
Hardness Change		-1°
Elongation Change		-26%
Tensile Strength Change		-1 MPa
Weight loss		0 gr
Immersion in Oil n°3, 70h/150°C	ISO 1817	
Volume Change		+33%
Hardness Change		-21°
Elongation Change		0%
Tensile Strength Change		-1,5 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.
- 3-A 18-03 compliant
- 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.

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.

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