

Genuine Viton® A 90 brown-compound 514310 Vulc-O-Ring - Technical Data Sheet

1. Introduction

Original Viton® A 514310-compound is based on a copolymer with 66% Fluorine content. Cure system is Bisphenol.



Chemical Composition :	Copolymer with 66% Fluorine, Bisphenol cured
Physical form :	Extrusions / Mouldings / Vulc-O-Rings / O-Rings
Colour :	Brown
Odour :	None
Storage stability * :	Excellent

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 868	90° ± 5° IRHD
Tensile Strength at break	ISO 37	11,15 MPa
Elongation at break	ISO 37	129,3%
Specific Weight		2,51
Compression Set, 22h/175°C, on slab	ISO 815	9,42%
Heat Ageing 70h/250°C	ASTM D 573	
Hardness Change		+2,6°
Tensile Strength Change		+27%
Elongation Change		-20%
Immersion in Oil n°3, 70h/150°C	ISO 1817	
Volume Change		+2,34%
Hardness Change		+1,7°
Elongation Change		+1,15%
Tensile Strength Change		-4,4 MPa

4. Temperature Resistance

- 20° to +200°C
- TR10 (low temp. resistance): -17°C

5. Chemical Resistance

Concentrated acids	: excellent
Acetone	: bad
Hydroxides	: excellent
Benzene	: excellent
Crude oil	: excellent
Toluene	: excellent
Fuel C	: excellent
Gasoline	: very good
BTM oil 3	: excellent
Methylene chloride	: very good
MEK	: bad
MTBE	: bad
Water < 100°C	: very good
Steam > 120°C	: bad

6. Safety and Handling

Read and be guided by the recommendations in the DuPont Dow Elastomers technical bulletin H-71129-02, 'Handling Precautions for Viton® and Related Chemicals'.

7. 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.