



XNBR 75-compound WXNBR 111 Vulc-O-Ring - Technical Data Sheet

1. Introduction

XNBR 75-compound WXNBR 111 is made of XNBR (Carboxylated Nitrile Rubber).

Cure system is sulphur.

2. Product Description

Chemical Composition :

Carboxylated Nitrile Rubber - 27% ACN - Blend of Butadiene/Acrylonitrile and Methacrylic acid.

Physical form :

Mouldings / Vulc-O-Rings

Colour :

Black

Storage stability * :

± 10 years

3. Physical Properties

Test Method	Norm	Test Values
Specific Weight	ISO 2781	1,21
Hardness	ISO 868	75 ± 5 IRHD
Tensile Strength at break	ISO 37	15,6 MPa
Elongation at break	ISO 37	349%
Specific Weight	ISO 2781	1,21
Compression Set	ISO 815	29%
22h/100 °C, on slab		
Heat Ageing 70h/150 °C	ISO 188	
Hardness Change		+7°
Tensile Strength Change		+2 MPa
Elongation Change		-19,8%
Weight Change		-0,11 gr
Immersion in ASTM oil n°3, 70h/150 °C	ISO 1817	
Volume Change		-0,54%
Hardness Change		+1,5
Tensile Change		+3 MPa
Elongation Change		-23%

5. 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.

4. Temperature Resistance

- -23° to +100 °C

6. Advantages

- Excellent resistance to aliphatic hydrocarbons (e.g. propane, butane and petroleum), mineral oils/greases, vegetable/animal oils/greases, heating oil and diesel fuel.
- Good for steam up to 130 °C

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