



NBR 75-compound WNBR 5001 Vulc-O-Ring - Technical Data Sheet

Introduction :

NBR 75-compound WNBR 5001 is made of NBR (Acrylonitrile - Butadiene - Rubber) with medium percentage of ACN. Cure system is Peroxide. In conformity with FDA 177.2600 and 3A, class II.

2. Product Description

Chemical Composition : Acrylonitrile / Butadiene Rubber
 Physical form : Mouldings / Vulc-O-Rings / Extrusions
 Colour : Black
 Storage stability * : 7 years

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 868	75 ± 5 IRHD
Specific Weight	ISO 2781	1,37
Tensile Strength at break	ISO 37	11,7 MPa
Elongation at break	ISO 37	379%
Compression Set 22h/100 °C, on slab	ISO 815	19,5%
Heat Ageing, 70h/100 °C	ISO 188	
Hardness Change		+3,3°
Tensile Strength Change		-0,7 MPa
Elongation Change		-16%
Weight Change		0,02 gr
Immersion in ASTM oil n°3, 7h/100 °C	ISO 1817	
Hardness Change		-4°
Volume Change		+6,3%
Elongation Change		-41%
Tensile Strength Change		-4,8 MPa



5. Chemical Resistance

Alkali : very good
 Air : excellent
 Alcohol : very good
 Fats : excellent
 Mineral oils : excellent
 Silicone oils : excellent
 Vegetable oils : excellent
 Inorganic acids : excellent
 Ketones : unsatisfactory
 Ethers : unsatisfactory
 Organic acids : fair
 Inorganic acids : excellent

4. Temperature Resistance

• -30° to +120 °C

6. Advantages

- Excellent resistance to aliphatic hydrocarbons, mineral oils, greases, vegetable and animal oils, heating oil and diesel fuel.
- FDA 177.2600 class 1, extraction tested.
- Certificates on demand.
- This compound is ADI (Animal Derived Ingredient Free).