



NBR 70-compound WNBR 5002 - Technical Data Sheet

1. Introduction

NBR 70-compound WNBR 5002 is a Nitrile compound with medium percentage of acrylonitrile. Standard compound with good compression set values for contact with hydraulic fluids.

2. Product Description

Chemical Composition :	Acrylonitrile / Butadiene Rubber
Physical form :	O-Rings / Mouldings
Colour :	Black
Odour :	None
Storage stability * :	± 7 years

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	70 ± 5 IRHD
Tensile Strength at break	ISO 37	min 13 MPa
Elongation at break	ISO 37	min 250%
Specific Weight	ISO 2781	1,25
Compression Set	ISO 815	
25% compression - 22h/100 °C		max 12%
on slab		max 20%
on O-Ring (3,53 mm)	ISO 815	ISO 188
Heat Ageing 70h/100 °C		max +6°
Hardness Change		max -2,1%
Volume Change		
Immersion in ASTM oil n° 3	ISO 1817	
Hardness Change		max -5°
Volume Change		max +9%
Weight Change		max +6%

4. 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

5. Temperature Resistance

- -30° to +120 °C
- TR10 (low temp. resistance): -22 °C

6. Advantages

- Good compression set
- Stock item for ca 12.000 dimensions
- Standard O-Ring compound
- good balance price/lifetime