



NBR 70-compound WNBR 5004 - Technical Data Sheet

1. Introduction

The WESTERN NBR 70 WNBR 5004 compound is a medium Nitrile compound for industrial use. It is the standard cord compound.

2. Product Description

Chemical Composition :	Acrylonitrile / Butadiene Rubber
Physical form :	Cords / Extrusions
Colour :	Black
Storage stability * :	± 7 years

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M/2	70 ± 5 IRHD
Specific Weight	ISO 2781	1.27
Tensile Strength at break	ISO 37	11 MPa
Elongation at break	ISO 37	250%
Compression Set	ISO 815	35% max
22h/100 °C, on cord 3,53 m		
Heat Ageing, 70h/100 °C	ISO 188	+7°
Hardness Change		-2,6%
Volume Change	ISO 1817	+3°
Immersion in ASTM oil n°3, 70h/100 °C		-3%
Hardness Change		-2,6%
Volume Change		
Weight Change	ISO 1817	+7°
Immersion in FAM B, 24h/23 °C		-16,5%
with drying during 24h at 100 °C		-13,1%
Hardness Change		
Volume Change		
Weight Change		

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 +115°C
- TR10 (low temp): -22°C

6. Advantages

- Tolerances to ISO 3302.

7. Other Information

- Also ask for our high performance NBR 70 cord with E1 Tolerances.