

NBR 90-compound 47702 - Technical Data Sheet

1. Introduction

NBR 90-compound 47702 is a Nitrile compound with medium percentage of Acrylonitrile. Standard compound with good compression set values for contact with hydraulic fluids.

2. Product Description

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

* : Following DIN 7716 conditions

3. Physical Properties

<i>Test Method</i>	<i>Norm</i>	<i>Test Values</i>
Hardness	DIN 53519	90° ± 5° IRHD
Tensile Strength at break	DIN 53504	min 16 MPa
Elongation at break	DIN 53504	min 250%
Specific Weight	ASTM D 1817	1,25
Compression Set	DIN 53517	max 13% max 25%
25% compression - 22h/100°C	ASTM 395 B	
on slab		
on O-Ring (3,53 mm)		
Heat Ageing 70h/100°C	DIN 53508	max +4°
Hardness Change		

4. Temperature Resistance

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

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

6. Advantages

- Low compression-set
- Stock item for ca 2000 dimensions
- Standard O-Ring compound
- Good balance price/lifetime

7. Other Information

- Can be formulated to meet FDA 177.2600 compliance

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.