NBR 70-compound 32770 - Technical Data Sheet

1. Introduction

NBR 70-compound 32770 is a Buna N compound for gas apllications.

2. Product Description

Chemical Composition	:	Acrylonitrile / Butadiene Rubber
Physical form	:	O-Rings / Mouldings
Colour	:	Black
Odour	:	None
Storage stability *	:	± 5 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 48 Method M	70 ± 5 IRHD
Tensile Strength at break	ISO 37	13,3 MPa
Elongation at break	ISO 37	350%
Air Ageing 24h/100°C	ISO 188	-5%
Compression Set	ISO 815	
40% compression, 72h/23°C		7%
25% compression, 24h/100°C		12%
25% compression, 72h/-5°C		16%
Stress Relaxation		
Stress decrease per timedecade		1,9%
Stress increase after immersion in iso-octaan/toluene (70-30)		5%
Stress decrease after drying		7%
Immersion in iso-octaan/toluene (70-30)	ISO 1817	
Volume Change at 72h/23°C		+26%
Weight Change after drying		-0,1%
Immersion in demineralized water	ISO 1817	
Volume Change at 72h/23°C		+0,6%
Weight Change after drying		-0,2%
Ozone Resistance		
20% elongation at 120h/40°C		No attack

4. Temperature Resistance

- -30° to +120°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

- For gas applications

7. Other Information

- In conformity with NEN 7212 Dutch Gastec QA and ECE 67R01 directives.