# FRIKS

Animal Derived Ingredient

free

FRIKS

Therban

# HNBR 70-compound 886972 white - Technical Data Sheet

#### 1. Introduction

HNBR 70-compound 886972 FDA is a hydrogenated Nitrile compound with medium percentage of Acrylonitrile. Standard compound with good compression set values for contact with fatty foods. Compound is compliant to FDA 177.2600.

## 2. Product Description

Chemical Composition :		Acrylonitrile / Butadiene Rubber							_
Physical form	:	O-Rings / N	louldings						_
Colour	:	White							
Odour	:	None							
Storage stability *	:	± 10 years					12	7	
					~				
* : Following ISO 2230	cond	itions							

### **3. Physical Properties**

Test Method	Unit	Norm	Test Values	
Density	g/cm <sup>3</sup>	ISO 2781	1,11	
Hardness Shore A	Point	ISO 868	77	
Tensile Strength	Мра	ISO 37	17,21	
Ultimate Elongation	%	ISO 37	297	
Modulus 100%	Мра	ISO 37	6,77	
Modulus 200%	Мра	ISO 37	17	
Compression Set 70h/150°C	%	ISO 815	23	
Compression Set 70h/23°C	%	ISO 815	11,2	
Heat Ageing 168h/150°C		ISO 188		
Hardness Change Shore A	Point	-	+7	
Tensile Strength Change	Мра		+1,73	
Ultimate Elongation Change	%		-18,64	
Oil ASTM 3, 70h/100°C		ISO 1817		
Hardness Change Shore A	Point		-3	
Volume Change	%		+9	

# 4. Temperature Resistance

- -30° to +150°C
- TR10 (low temp. resistance): -20°C
- Short time up to 180°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		
Ozone		excellent		

## 6. Advantages

- Standard O-Ring compound HNBR-FDA
- Good balance price/lifetime
- Migration tested in compliance with FDA 177.2600 class 1 (certificate on request)

#### 7. Other Information

- Higher temperature resistant than NBR.
- Good in steam up to 130°C.
- Can be produced in small quantities.
- This compound is ADI (Animal Derived Ingredient Free).

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.