# NBR 70.45-11

Material name, short description		
Material name, based on technical standards		
Material description / intended use		
Color		
Compound code		
Old, but still valid compound code		

Crosslinking/curing agent

Remarks

# Angst+Pfister

### Sealing technology Technical Data Sheet

NBR
Acrylic-Butadiene-Rubber
Elastomer with good resistance to mineral and vegetable oils/greases, alkalis, alcohols, gas, water
black
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NBR 70.45-01 / NBR 70.45-03 / NBR 70.445-01 / NBR 70.445-04
sulfur
ACN content 33% ASTM code: ASTM D2000 M2 BG714 B14 EO14 EO34 EF11 EF21 EA14

#### Thermal properties

Operating temperature min.*	-40 °C
Operating temperature max.*	100 °C

\* Approximate value, dependent on the application

#### **Mechanical properties**

Hardness nominal	70 ±5 Shore A ASTM D 2240
Hardness	73 Shore A
Density nominal	1.28 ±0.03 g/cm <sup>3</sup> ASTM D 1817
Tensile strength	17.7 N/mm² ASTM D 412-C
Elongation at break	473 % ASTM D 412-C
Compression set	9 %
	22 h, 100 °C
Abrasion	147 mm³ ISO 4649 - A

#### Storage in medium 1

Medium	IRM 901 Oil (ASTM 1)
Test parameter	70 h, 100 °C
Value change	Hardness: +8 Points Tensile strength: +13 % Elongation at break: -7 % Volume: -7 %

#### Storage in medium 3

Medium	ASTM Fuel A
Test parameter	70 h, 23 °C
Value change	Hardness: +1 Points Tensile strength: +2 % Elongation at break: +6 % Volume: 0 %

#### Storage in medium 2

Medium	IRM 903 Oil (ASTM 3)
Test parameter	70 h, 100 °C
Value change	Hardness: 0 Tensile strength: +8 % Elongation at break: -8 % Volume: +3 %

#### Storage in medium 4

Medium	ASTM Fuel B
Test parameter	70 h, 23 °C
Value change	Hardness: -10 Points Tensile strength: -19 % Elongation at break: -18 % Volume: +18 %

In compliance with RoHS and REACH directives. This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.

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#### Storage in medium 5

Medium	Water ASTM
Test parameter	70 h, 100 °C
Value change	Hardness: 0 Points Tensile strength: -1 % Elongation at break: -10 % Volume: +3 %

#### Air aging 1

Test parameter	70 h, 100 °C
Value change	Hardness: +8 Points Tensile strength: +10 % Elongation at break: -14 %

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