HITEC® NBR 70.10-02

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

Manufacturing process

Remarks

Mechanical properties

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Hardness nominal	70 ±5 Shore A ASTM D 2240
Density nominal	1.3 ±0.03 g/cm³ ASTM D 297
Tensile strength	14 N/mm² ASTM D 412-C
Elongation at break	270 % ASTM D 412-C
Compression set	18 % ASTM D 395-B 22 h, 125 ℃
	23 % ASTM D 395-B 70 h, 100 ℃
Tear resistance	40 N/mm ASTM D 624-B
Abrasion	155 mm³ ISO 4649

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
NBR 70.10-02
NBR 70.5/P5F
sulfur
moulded parts
ACN content 33% ASTM code: ASTM D2000 SAEJ200-M2 BG714 A14 B14 EA14 EF11 EF21 EO14 EO34

Thermal properties

Operating temperature min.*	-20 °C
Operating temperature max.*	125 °C
TR 10 value	-20 °C ASTM D 1329
Brittleness point	-20 °C ASTM D 2137-A

* Approximate value, dependent on the application

Storage in medium 1

Medium	IRM 901 Oil (ASTM 1)
Test parameter	70 h, 100 °C
Test standard	ASTM D 471
Value change	Hardness: 0 Points Tensile strength: -24 % Elongation at break: -29 % Volume: -3 %

Storage in medium 2

Medium	IRM 903 Oil (ASTM 3)
Test parameter	70 h, 100 °C
Test standard	ASTM D 471
Value change	Hardness: -9 Tensile strength: -20 % Elongation at break: -18 % Volume: +15 %

Air aging 2

Test parameter	70 h, 110 °C
Test standard	ASTM D 573
Value change	Hardness: +7 Points Tensile strength: +5 %
	Elongation at break: -34 %

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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Sealing technology **Technical Data Sheet**

Storage in medium 3

Medium	Water ASTM
Test parameter	70 h, 100 °C
Test standard	ASTM D 471
Value change	Hardness: -6 Points Tensile strength: -9 % Elongation at break: -10 % Volume: +8 %

Air aging 1

Test parameter	70 h, 100 °C
Test standard	ASTM D 573
Value change	Hardness: +5 Points
	Tensile strength: 0 %
	Elongation at break: -20 %

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Sealing technology **Technical Data Sheet**

Approvals / Compliand	ce	
Drinking water	NSF 61 cold and hot up to 85 °C	
	CLP (DGS/VS4 n°99/217 dated 12/04/1999 and DGS/VS4 n°2000/232 dated 27/04/2000)	
	D.M. 06/04/04 n°174	
	ÖNORM (B 5014-1) for drinking water cold and hot up to 85 °C	
	UBA Conformity for drinking water cold and hot up to 85°C, Product group P2 and P3	
	WRAS (BS 6920-1:2000 specification) cold water 23 °C	
Food & Beverage	FDA CFR 21 - 177.2600 "Rubber articles intended for repeated use" a) - f)	
	D.M. 21/03/1973 (Migration test)	
	Dlgs. 25.01.1992 n.108 Art.2 (ex. DPR 777/82 art 2) - Complies with Arsenic content limits	
	Regulation EC 1935/2004 (excl. article 15, based on FDA) and EC Regulation 2023/2006 (GMP)	
	Resolution ResAP (2004) 4	
	GB 4806.11-2016 (Migration test)	
Oil & Gas	DVGW CERT ZP 5101:2021-12 H ₂ mean permeability 638 (cm ³ x mm) / (m ² x 24 h x bar) / 23°C	
	DVGW EN 549 B1/H3	
Specific substance statements	ADI free (free of Animal Derived Ingredients) resp. TSE/BSE related substances	
	PAH Category 2 (AfPS GS 2019:01)	



UBA





DVG

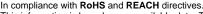












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