

FFV Ordnance AB

FS- 3034 A
O-RING 7.1 x 1.6 ,
(Part No. 06415234)

COMPONENT SPECIFICATION 2 (157)

Date 2018-02-26 Issue 11 Document ID 301171297

Classification Company Confidentiality
COMPANY UNCLASSIFIED
Classification Defence Secrecy

Issued by
Martina Johansson
Classification Export Control
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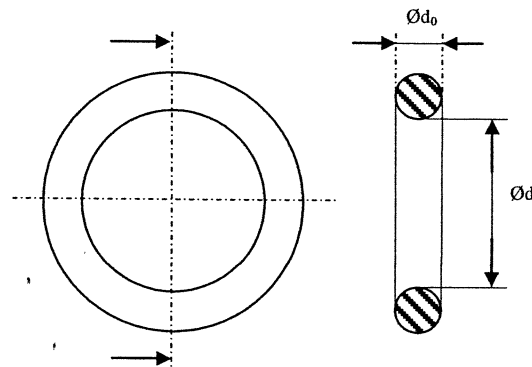
3 Applicable Documents

Datasheet for O-Ring (part of):

Downloaded from:

http://www.tss.trelleborg.com/com/www/media/downloads/catalogs/o_ring_gb.pdf

4 Standard Component Information



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Part number	Dimension (mm)		Material	Hardness	Temperature (°C)	RoHS
	d	d ₀				
M1536-211201	3.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
M1536-211301	3.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
M1536-211202	4.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
450002465	4.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
M1536-211302* ¹	4.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
M1536-211203	5.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
450002341	5.3	2.4	N70* ²	70 Shore A	-30/+100	Yes

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COMPONENT SPECIFICATION 3 (157)

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Part number	Dimension (mm)		Material	Hardness	Temperature (°C)	RoHS
	d	d ₀				
M1536-211303* ¹	5.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
F1347-002075	6.0	1	N70* ²	70 Shore A	-30/+100	Yes
M1536-211204	6.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
M1536-211304	6.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
F1341-412601	6.6	1.8	N70* ²	70 Shore A	-30/+100	Yes
M1536-211205	7.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
06415234	7.1	1.6	N70 ²	70 Shore A	-30/+100	Yes
M1536-211305	7.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
M1536-211206	8.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
M1536-211306	8.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
450002716	9.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
F1341-403417	9.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
M1536-211207* ¹	9.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
06-0000099	9.25	1.78	N70* ²	70 Shore A	-30/+100	Yes
F1341-418722	9.25	1.78	N70* ²	70 Shore A	-30/+100	Yes
M1536-211307	9.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
F1341-402761	10	1	N70* ²	70 Shore A	-30/+100	Yes
M1536-211208	10.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
450002342	10.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
M1536-211308* ¹	10.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
450001207	11.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
M1536-211209* ¹	11.1	1.6	N70* ²	70 Shore A	-30/+100	Yes
450002343	11.3	2.4	N70* ²	70 Shore A	-30/+100	Yes
M1536-211309* ¹	11.3	2.4	N70* ²	70 Shore A	-30/+100	Yes

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FS- 3034 A

Trelleborg Sealing Solutions offers various materials, which provide additional advantages, in addition to the standard materials previously described. The advantages include a wide range of available molds, special operating temperature ranges, special media resistances and institutional approvals

for the portable water, pharmaceutical and beverage industries. The following table shows preferred materials, which are characterized by their wide spectrum of use. They can be used for standard applications as well as for special industrial applications.

Table 10: Preferred materials

Material	Shore A	Shore D	Operating temperature range	Material code	Properties
NBR * Nitrile Butadiene Rubber	70	○	-30 °C to +100 °C -22 °F to +212 °F	N7083	   
		○		* N7003	  
		○		N7024	   
		○	-55 °C to +80 °C -67 °F to +176 °F	N7T40	  
	90	○	-25 °C to +100 °C -13 °F to +212 °F	N9002	 
HNBR Hydrogenated Nitrile Butadiene Rubber	70	○	-30 °C to +140 °C -22 °F to +284 °F	H7671	  
FKM Fluorocarbon Rubber	70	○	-20 °C to +200 °C -4 °F to +392 °F	V70GA	   
				V70G1	  
	75	○		VC001	  
	80	○		V80G2	  
		○		V8003	  
		○		V8605	   
		○		V8T14	   
	90	○	-15 °C to +200 °C +5 °F to +392 °F	V90G1	  
		○		V9670	  





MATERIAL DATA SHEET / MATERIAL-DATENBLATT

Material code
Material-Code

N7003

old / alt
(N70B200V)

Additional codes
Weitere Codes

Material reference
Material-Referenz

Basic polymer
Basis-Polymer

ISO 1629

NBR

Hardness
Härte

DIN 53 505

70 +/- 5 Shore A

IRHD

Color
Farbe

black / schwarz

Specific gravity
Dichte

DIN EN ISO 1183-1

1.24 +/-0.02 g/cm³

ASTM code
ASTM-Code

D2000 / SAE J200

M 2 BG 714 B14 EA14 EO14 EO34 EF11 EF21 F17

Temperature range
Temperatureinsatzbereich

-30 °C to / bis 100 °C

Maximum and minimum working temperature have to be agreed according to specific application criteria. / Maximale und minimale Betriebstemperatur müssen je nach spezifischen Einsatzkriterien abgestimmt werden.

Market segments
Marktbereiche

Industrial

Applications
Einsatzgebiete



The indicated material properties at measured values are mean values determined with standard test bars. They may not be used as specification values and they are not directly comparable to material properties of finished parts. This is to emphasise that the customer himself is obliged to test the material with regard to its suitability in the application. This data sheet has not a change of service.

Die unter Istwert angegebenen Kennwerte sind Mittelwerte und wurden an Normprobekörpern bestimmt. Sie dürfen nicht als Spezifikationswerte verwendet werden. Auch sind sie nicht mit am Fertigteil bestimmten Kennwerten vergleichbar. Der Abnehmer ist insbesondere nicht davon befreit, selbst die Eignung unserer Ware für den beabsichtigten Verwendungszweck zu prüfen. Das Datenblatt unterliegt nicht dem Änderungsdienst.

Polymer Laboratory Stuttgart

13.07.2010 / GMDB

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MATERIAL DATA SHEET / MATERIAL-DATENBLATT

Material code **N7003** old / alt
 Material-Code (N70B200V)

Properties <i>Eigenschaften</i>	Norm <i>Norm</i>	Required <i>Soll</i>	Measured <i>Ist</i>	Unit <i>Einheit</i>
Hardness <i>Härte</i>	DIN 53 505	70 +/- 5	73	Shore A
			74	IRHD
Specific gravity <i>Dichte</i>	DIN EN ISO 1183-1	1.24 +/-0.02	1.24	g/cm ³
Modulus 100 % <i>Spannungswert 100 %</i>	DIN 53 504		4.8	MPa
Tensile strength <i>Zugfestigkeit</i>		≥ 14.0	17.5	MPa
Elongation at break <i>Bruchdehnung</i>		≥ 300	373	%
Compression set <i>Druckverformungsrest</i>	DIN ISO 815 (B)	≤ 25	19	%
Low temperature behaviour <i>Kälteflexibilität</i>				
TR point <i>TR Punkt</i>	DIN 53 545		-29	°C
TR 10 point <i>TR 10 Punkt</i>	TBS 00036		-27	°C
TG point <i>TG Punkt</i>	ISO 11357		-30	°C
Brittleness point <i>Versprödungspunkt</i>				





MATERIAL DATA SHEET / MATERIAL-DATENBLATT

Material code **N7003** old / alt
Material-Code (N70B200V)

Resistance <i>Beständigkeit</i>	Required <i>Soll</i>	Measured <i>Ist</i>	Unit <i>Einheit</i>
Resistance in Air <i>Lagerung in Luft</i>	DIN 53 508		
Test conditions <i>Prüfbedingungen</i>	72 h / 100 °C		
Change of hardness <i>Härteänderung</i>		4	Shore A
Tensile strength <i>Zugfestigkeit</i>		19.7	MPa
Change of tensile strength <i>Zugfestigkeitsänderung</i>		13	%
Elongation at break <i>Bruchdehnung</i>		331	%
Change of elongation at break <i>Bruchdehnungsänderung</i>		-11	%
Change of weight <i>Gewichtsänderung</i>		-3	%
Change of volume <i>Volumenänderung</i>			%
Resistance in ASTM-Oil No. 1 <i>Lagerung in ASTM-Oel Nr. 1</i>	DIN ISO 1817		
Test conditions <i>Prüfbedingungen</i>	72 h / 100 °C		
Change of hardness <i>Härteänderung</i>		3	Shore A
Tensile strength <i>Zugfestigkeit</i>		19.6	MPa
Change of tensile strength <i>Zugfestigkeitsänderung</i>		12	%
Elongation at break <i>Bruchdehnung</i>		318	%
Change of elongation at break <i>Bruchdehnungsänderung</i>		-15	%
Change of weight <i>Gewichtsänderung</i>		-5	%
Change of volume <i>Volumenänderung</i>		-6	%



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Material code
Material-Code

N7003

old / alt
(N70B200V)

Resistance <i>Beständigkeit</i>	Required <i>Soll</i>	Measured <i>Ist</i>	Unit <i>Einheit</i>
Resistance in ASTM-Oil IRM 903 (ASTM-3) <i>Lagerung in ASTM-Oel IRM 903 (ASTM-3)</i>	DIN ISO 1817		
Test conditions <i>Prüfbedingungen</i>	72 h / 100 °C		
Change of hardness <i>Härteänderung</i>		-3	Shore A
Tensile strength <i>Zugfestigkeit</i>		19.1	MPa
Change of tensile strength <i>Zugfestigkeitsänderung</i>		9	%
Elongation at break <i>Bruchdehnung</i>		344	%
Change of elongation at break <i>Bruchdehnungsänderung</i>		-8	%
Change of weight <i>Gewichtsänderung</i>		3	%
Change of volume <i>Volumenänderung</i>		4	%

Additional compound information about approvals, resistance tests etc. are available on request.
Weitere Werkstoffinformationen über Freigaben, Beständigkeitsuntersuchungen usw. erhalten Sie auf Anfrage.



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