



SLOVENSKI STANDARD SIST EN 2261:2001

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Aerospace series - Silicone rubber (VMQ) - Hardness 70 IRHD

Aerospace series - Silicone rubber (VMQ) - Hardness 70 IRHD

Luft- und Raumfahrt - Silicon-Elastomer (VMQ) - Härte 70 IRHD

Série aérospatiale - Elastomère silicone (VMQ) - Dureté 70 DIDC

Ta slovenski standard je istoveten z: EN 2261:1995

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ICS:

49.025.40 Guma in polimerni materiali Rubber and plastics

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EUROPEAN STANDARD

EN 2261

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1995

ICS 49.040.10

Descriptors: aircraft industry, rubber, silicones, hardness

English version

Aerospace series - Silicone rubber (VMQ) - Hardness 70 IRHD

Série aérospatiale - Elastomère silicone (VMQ)
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CEN

European Committee for Standardization
Comité Européen de Normalisation
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Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 1996, and conflicting national standards shall be withdrawn at the latest by March 1996.

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1 Scope

This standard specifies the properties of silicone rubber (VMQ) ¹⁾, hardness 70 IRHD, for aerospace applications.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 1629 Rubber and latices - Nomenclature

ISO 1817 Rubber, vulcanized - Determination of the effect of liquids

EN 3207 Aerospace series - Rubber compounds - Technical specification ²⁾

3 Application of the material

The suitability of the material for a specific application shall be determined by complementary tests carried out on the finished product as the properties specified in this standard are obtained from standard test specimens.

3.1 Typical use

For application as ozone and weather resistant rubber with good thermal properties.

NOTE : The ozone resistance test is not required.

3.2**Temperature range**

- Continuous service : from - 55 °C to + 200 °C
- Intermittent service : from - 55 °C to + 260 °C

4 Properties

See tables 1 and 2.

For qualification, all tests shall be performed.

For batch acceptance, the tests identified in tables 1 and 2 shall be performed.

5 Designation

Description block

RUBBER

Identity block

EN2261

Number of this standard

6 Technical specification

EN 3207

¹⁾ Symbol as per ISO 1629

²⁾ In preparation at the date of publication of this standard

Table 1 - Test methods

Column Line	1	2	3
	Properties	Units	Requirements
1	Hardness	IRHD	70 ⁺⁵ ₋₄ *)
2			
3	Density	Mg/m ³	1) *)
4			
5	Tensile strength	MPa	5 min. *)
6			
7	Elongation at break	%	150 min. *)
8			
9	Modulus at - % strain	MPa	-
10			
11	Tear strength	N/mm	8 min.
12			
13	Resistance to low temperatures TR10	°C	- 40 max.
14	Crystallization	Point	-
15	Compression set		
15.1	after 70 h to 150 °C	%	40 max. *)
15.2	after h to °C		-
16			
17	Ozone resistance Ozone concentration : (- ± -) ppm Elongation of test piece : SIST EN 2261:2001 % Time : h Temperature : °C	-	-
18			
19	Corrosion and adhesion on metals in a dry atmosphere Time : - h Temperature : - °C	-	-
20	Corrosion and adhesion on metals in a damp atmosphere		
20.1	Time : - h Temperature : - °C Humidity : - %	-	-
20.2	Time : - h Temperature : - °C Humidity : - %	-	-
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

*) Test for batch acceptance

1) The value determined for each batch shall not differ from that determined at qualification by more than 0,02 Mg/m³.

Table 2 - Tests after exposure to test media

Column Line	1		2	3	4	5
1	Test media		-	Air	Oil No. 1 see ISO 1817	Test fluid 101 see ISO 1817
2	Conditions of exposure in test media		Units	70 h/225 °C	70 h/150 °C	70 h/150 °C
3	Permitted variation of the properties compared to the initial value	Volume	%	-	+10 0 *)	+35 0
4		Mass	%	-	-	-
5		Tensile strength	%	- 25 max.	- 20 max.	-
6		Elongation at break	%	- 40 max.	- 15 max.	-
7		Hardness	IRHD	+10 - 10	0 - 10	-
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*) Test for batch acceptance

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