

SLOVENSKI STANDARD SIST EN 2432:2001

01-januar-2001

Aerospace series - Ethylene-propylene rubber (EPM/EPDM) - Hardness 90 IRHD

Aerospace series - Ethylene-propylene rubber (EPM/EPDM) - Hardness 90 IRHD

Luft- und Raumfahrt - Ethylen-Propylen-Elastomer (EPM/EPDM) - Härte 90 IRHD

Série aérospatiale - Elastomere éthylene-propylene (EPM/EPDM) - Dureté 90 DIDC

Ta slovenski standard je istoveten z: EN 2432:1995

SIST EN 2432:2001

https://standards.iteh.ai/catalog/standards/sist/05fba21d-861a-4acc-add8-22f2cceeea33/sist-en-2432-2001

ICS:

49.025.40 Guma in polimerni materiali Rubber and plastics

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SIST EN 2432:2001

iTeh STANDARD PREVIEW (standards.iteh.ai)

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EUROPEAN STANDARD

EN 2432

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1995

ICS 49.040.10

Descriptors:

• 1995

aircraft industry, rubber, ethylene-propylene rubber, hardness

English version

Aerospace series - Ethylene-propylene rubber (EPM/EPDM) - Hardness 90 IRHD

Série aérospatiale - Elastomère Luft- und Raumfahrt - éthylène-propylène (EPM/EPDM) - Dureté 90 DIOC ARD PRE Ethylen-Propylen-Elastomer (EPM/EPDM) - Härte 90 TRHD (Standards.iteh.ai)

SIST EN 2432:2001 https://standards.iteh.ai/catalog/standards/sist/05fba21d-861a-4acc-add8-22f2cceeea33/sist-en-2432-2001

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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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of an identical text or by endorsement, at the latest by March 1996, and conflicting national standards shall be withdrawn at the latest by March 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom. (standards.iteh.ai)

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1 Scope

This standard specifies the properties of ethylene-propylene rubber (EPM/EPDM) ¹⁾, hardness 90 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 Teh STANDARD PREVIEW

Application requiring a resistance to ozone, weather and phosphate ester based hydraulic fluids.

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NOTE: This material shall not be used for the manufacture of dynamic seals in flight hydraulic systems. https://standards.iteh.ai/catalog/standards/sist/05fba21d-861a-4acc-add8-

3.2 Temperature range

- Continuous service :

- Intermittent service :

from - 55 °C to + 125 °C from - 55 °C to + 160 °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 Identity block

RUBBER EN2432

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

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Table 1 - Test methods

Column			
	1	2	
Line	•	2	3
Lille	Properties	Units	Boguiromonto
,	Floperiles	Units	Requirements
1	Hardness	IRHD	90 +3 *)
2			
3	Density	Mg/m ³	1) *)
4			7
5	Tensile strength	MPa	11 min. *)
6			
7	Elongation at break	%	120 min. *)
8			
9	Modulus at - % strain	MPa	-
10			
11	Tear strength	N/mm	15 min.
12			
13	Resistance to low temperatures TR10	°C	- 30 max.
14	Crystallization	Point	•
15	Compression set		
15.1	after 17 h 70 to 100 CPD PREV	IEW	40 max. *)
15.2			•
16	Ozone resistance		ta ta t
17	Ozone concentration : (200 ± 20) pphm Elongation of test piece : SIST20N 2432:2001% Time https://standards.iteh.ai/catalog168dards/sist/05hba21d-86 Temperature 22f2cceec30/sist-en-2432C001	a-4acc-add8-	Nil cracking
18	Dillococcoon hist on 2132 door		<u>}</u>
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 : - %	<u>.</u>	•
21			
22			
23			
24			
25			
26			
27			
28			
39			
30 Test for batch ac	contance		
r rescrot datch ac	LEDIGITUE		

^{*)} 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.

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Table 2 - Tests after exposure to test media

Column						
Line		1	2	3	4	5
1	Test media		-	Air	Test fluid 103 see ISO 1817	
2	e	nditions of exposure est media	Units	70 h/125 °C	24 h/100 °C	
3	Permitted variation of the properties compared to the initial value	Volume	%	-	+20 *)	
4		Mass	%	•	-	
5		Tensile strength	%	- 15 max.	- 30 max.	
6		Elongation A R	D PR	20 max.V	- 20 max.	
7		(Handnessards	ireh.	ai) ^{+ 10} 0	0 -15	
8	https://sta	SIST EN 243		1d-861a-4acc-add	3-	
*) Test for batch acceptance 22f2cceeea33/sist-en-2432-2001						