



# SLOVENSKI STANDARD SIST EN 2798:2019

01-september-2019

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**Aeronavtika - Fluorooljnikove gume (FKM) - Nizka stopnja kompresije - Trdota 80 IRHD**

Aerospace series - Fluorocarbon rubber (FKM) - Low compressions set - Hardness 80 IRHD

Luft- und Raumfahrt - Fluorocarbon-Elastomer (FKM) - Niedriger Druckverformungsrest - Härte 80 IRDH

Série aérospatiale - Élastomère fluore (FKM) - Faible déformation rémanente après compression - Dureté 80 DIDC

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**Ta slovenski standard je istoveten z: EN 2798:2019**

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**ICS:**

49.025.40 Guma in polimerni materiali Rubber and plastics

**SIST EN 2798:2019**

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EUROPEAN STANDARD

EN 2798

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 49.025.40

English Version

## Aerospace series - Fluorocarbon rubber (FKM) - Low compressions set - Hardness 80 IRHD

Série aérospatiale - Élastomère fluoré (FKM) - Faible déformation rémanente après compression - Dureté 80 DIDC

Luft- und Raumfahrt - Fluorocarbon-Elastomer (FKM) - Niedriger Druckverformungsrest - Härte 80 IRDH

This European Standard was approved by CEN on 20 November 2017.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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## European foreword

This document (EN 2798:2019) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, 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 November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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**EN 2798:2019 (E)****1 Scope**

This document specifies the properties of fluorocarbon rubber (FKM)<sup>1)</sup>, low compression set, hardness 80 IRHD, for aerospace applications.

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 3207, *Aerospace series — Rubber compounds — Technical specification*

ISO 1629, *Rubber and latices — Nomenclature*

ISO 1817, *Rubber, vulcanized — Determination of the effect of liquids*

**3 Terms and definitions**

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

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1) Symbol as per ISO 1629.

## 4 Application of the material

### 4.1 General

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.

### 4.2 Typical use

Application requiring a resistance to air, hydrocarbon and synthetic oils, fuels at elevated temperature and low compression set properties.

### 4.3 Temperature range

- Continuous service: from  $-20\text{ °C}$  to  $225\text{ °C}$ ;
- Intermittent service: from  $-20\text{ °C}$  to  $250\text{ °C}$ .

## 5 Properties

See Table 1 and Table 2.

For qualification, all tests shall be performed.

For batch acceptance, those identified "\*" shall be performed.

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Table 1 — Test methods

Line	Column		
	1	2	3
	Properties	Units	Requirements
1	Hardness	IRHD	80 <sup>+5</sup> / <sub>-4</sub> *
2	-	-	-
3	Density	Mg/m <sup>3</sup>	<sup>a</sup> *
4	-	-	-
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	-
12	-	-	-
13	Resistance to low temperatures TR10	°C	- 12 max.
14	Crystallization	Point	-
15	Compression set	(standards.iteh.ai)	-
15.1	After 70 h to 200 °C	%	25 max. *
15.2	After ... h to 200 °C	SIST EN 2798:2019	-
16	<a href="https://standards.iteh.ai/catalog/standards/sist/820577c8-a201-4a2c-b8c1-e7e3b87568f5/sist-en-2798-2019">https://standards.iteh.ai/catalog/standards/sist/820577c8-a201-4a2c-b8c1-e7e3b87568f5/sist-en-2798-2019</a>	-	-
17	Ozone resistance Ozone concentration : (... ± ...) pphm Elongation of test piece : ... % Time : ... h Temperature : ... °C	-	-
18	-	-	-
19	Corrosion and adhesion on metals in a dry atmosphere Time : 168 h Temperature : 200 °C	-	no corrosion no adhesion
20	Corrosion and adhesion on metals		
20.1	Time : ... h Temperature : ... °C Humidity : ... %	-	-
20.2	Time : ... h Temperature : ... °C Humidity : ... %		
30	-	-	-
39	-	-	-

\* See Clause 5.  
<sup>a</sup> The value determined for each batch shall not differ from that determined at qualification by more than 0,03 Mg/m<sup>3</sup>.