



SLOVENSKI STANDARD
SIST EN 4840-103:2024

01-februar-2024

Aeronavtika - Toplotno skrčljive ulite forme - 103. del: Fluoroelastomerne, temperaturno območje od -55 °C do 200 °C - Standard za proizvod

Aerospace series - Heat-shrinkable moulded shapes - Part 103: Fluoroelastomeric, temperature range -55 °C to 200 °C - Product standard

Luft- und Raumfahrt - Wärmeschrumpfende Bauteile - Teil 103: Fluoroelastomeric, Temperaturbereich -55 °C bis 200 °C - Produktnorm

Série aérospatiale - Manchons thermorétractables - Partie 103 : Fluoroélastomère, plage de températures de -55 °C à 200 °C - Norme de produit

Ta slovenski standard je istoveten z: EN 4840-103:2023

SIST EN 4840-103:2024

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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EUROPEAN STANDARD

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English Version

Aerospace series - Heat-shrinkable moulded shapes - Part 103: Fluoroelastomeric, temperature range -55 °C to 200 °C - Product standard

Série aérospatiale - Manchons thermorétractables -
Partie 103 : Fluoroélastomère, plage de températures
de -55 °C à 200 °C - Norme de produit

Luft- und Raumfahrt - Wärmeschrumpfende Bauteile -
Teil 103: Fluoroelastomeric, Temperaturbereich -55 °C
bis 200 °C - Produktnorm

This European Standard was approved by CEN on 22 October 2023.

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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.

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

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EN 4840-103:2023 (E)

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European foreword

This document (EN 4840-103:2023) 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 document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

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 document: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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EN 4840-103:2023 (E)**1 Scope**

This document specifies the required characteristics for fluoroelastomeric, heat-shrinkable boots for use in aircraft electrical systems at operating temperatures between -55 °C and 200 °C .

The moulded shapes can be supplied with a pre-coated adhesive. Refer to the manufacturers/suppliers for options. A guide to adhesive compatibility is given in Annex A.

These moulded shapes are normally supplied in the styles and dimensions given in EN 4840-002. The colour is normally black.

Styles and dimensions other than those specifically listed in EN 4840-002 can be available as custom items. These items are considered to comply with this document if they comply with the property requirements listed in Table 1 with the exception of dimensions.

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 3909:2016, *Aerospace series — Test fluids and test methods for electrical and optical components and sub-assemblies*

EN 4840-001:2018, *Aerospace series — Heat-shrinkable moulded shapes — Part 001: Technical specification*

EN 4840-002¹, *Aerospace series — Heat-shrinkable moulded shapes — Part 002: Index of product standards and product dimensions*

EN 60695-11-10:2013, *Fire hazard testing — Part 11-10: Test flames — 50 W horizontal and vertical flame test methods* (IEC 60695-11-10:2013)

EN IEC 60757, *Code for designation of colours* (IEC 60757)

EN 62329-1, *Heat-shrinkable moulded shapes — Part 1: Definitions and general requirements* (IEC 62329-1)

EN 62329-2:2006, *Heat-shrinkable moulded shapes — Part 2: Methods of test* (IEC 62329-2:2006)

ISO 1817:2022, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

¹ Published as ASD-STAN Standard at the date of publication of this document by AeroSpace and Defence industries Association of Europe — Standardization (ASD-STAN), <https://www.asd-stan.org/>.