



NSAI
Standards

Irish Standard
I.S. EN 4708-107:2019

Aerospace series - Sleeving, heat-shrinkable, for binding, insulation and identification - Part 107:
Polytetrafluoroethylene (PTFE) - Operating temperatures - 65 °C to 260 °C - Product standard

I.S. EN 4708-107:2019

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National Foreword

I.S. EN 4708-107:2019 is the adopted Irish version of the European Document EN 4708-107:2019, Aerospace series - Sleeving, heat-shrinkable, for binding, insulation and identification - Part 107: Polytetrafluoroethylene (PTFE) - Operating temperatures - 65 °C to 260 °C - Product standard

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EUROPEAN STANDARD

EN 4708-107

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2019

ICS 49.060

English Version

**Aerospace series - Sleeving, heat-shrinkable, for binding,
insulation and identification - Part 107:
Polytetrafluoroethylene (PTFE) - Operating temperatures -
65 °C to 260 °C - Product standard**

Série aérospatiale - Manchons thermorétractables, de
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Polytétrafluoroéthylène (PTFE) - Températures
d'utilisation - 65 °C à 260 °C - Norme de produit

Luft- und Raumfahrt - Wärmeschrumpfender Schlauch
zur Befestigung, Isolierung und Identifizierung - Teil
107: Polytetrafluorethylen (PTFE) -
Temperaturbereich -65 °C bis 260 °C - Produktnorm

This European Standard was approved by CEN on 14 July 2019.

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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, 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, 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 4708-107:2019) 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 March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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 organisations of the following countries are bound to implement this European Standard: 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, Turkey and the United Kingdom.

EN 4708-107:2019 (E)**1 Scope**

This document specifies the required characteristics for a heat-shrinkable, polytetrafluoroethylene sleeving for use in aircraft electrical systems at operating temperatures between – 65 °C and 260 °C. This sleeving is basically translucent. It is semi-rigid, and suitable for use where resistance to chemicals and high temperature performance are required. It is flame resistant and available in low and high shrink ratios.

Type A Low Shrink Ratio

Type B High Shrink Ratio

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

EN 4708-001, *Aerospace series — Sleeving, heat-shrinkable, for binding, insulation and identification — Part 001: Technical specification*¹⁾

EN 60684-1, *Flexible insulating sleeving — Part 1: Definitions and general requirements* (IEC 60684-1)

EN 60684-2, *Flexible insulating sleeving — Part 2: Methods of test* (IEC 60684-2)

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

IEC 60757, *Code for designation of colours* ²⁾

MIL-PRF-87937, *Performance specification: Cleaning compound, aerospace equipment* ³⁾

AMS 1476, *Deodorant, aircraft toilet* ⁴⁾

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60684-1 apply.

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

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

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

2) Published by: IEC International Electrotechnical Commission, <http://www.iec.ch>

3) Published by: Department of Defense (DoD), <http://www.defenselink.mil/>

4) Published by: SAE National (US) Society of Automotive Engineers, <http://www.sae.org/>

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