



**NSAI**  
Standards

Irish Standard  
I.S. EN 4811:2017

Aerospace series - Flange couplings - Gasket seal with fluorocarbon seal on aluminium plate with 4 fastening holes - Inch series

**I.S. EN 4811:2017**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 4811:2017 is the adopted Irish version of the European Document EN 4811:2017, Aerospace series - Flange couplings - Gasket seal with fluorocarbon seal on aluminium plate with 4 fastening holes - Inch series

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EUROPEAN STANDARD

**EN 4811**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2017

ICS 49.080

English Version

## Aerospace series - Flange couplings - Gasket seal with fluorocarbon seal on aluminium plate with 4 fastening holes - Inch series

Série aérospatiale - Raccordement à bride - Joint plaque avec joint en fluorocarbone sur plaque en aluminium avec 4 trous de fixation - Série en inches

Luft- und Raumfahrt - Rohrverschraubung mit Flanschen - Flachdichtung aus Fluorocarbon-Elastomer, mit Aluminiumarmierung mit 4 Befestigungslöchern - Inch-Reihe

This European Standard was approved by CEN on 14 November 2016.

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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 foreword**

This document (EN 4811:2017) 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of an identical text or by endorsement, at the latest by November 2017, and conflicting national standards shall be withdrawn at the latest by November 2017.

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.

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## EN 4811:2017 (E)

### 1 Scope

This standard specifies the characteristics of gasket seal with fluorocarbon seal on aluminium plate, 4 holes, for pipe couplings for inch series aerospace applications.

Nominal pressure: up to 21 000 kPa; depends on the associated tube material and tube wall thickness in the assembly (see EN 4814).

Temperature range: -20 °C to 200 °C.

NOTE Assembly in accordance with TR 4815.

This part should not be reused after disassembling.

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2284, *Aerospace series — Sulphuric acid anodizing of aluminium and wrought aluminium alloys*

EN 2424, *Aerospace series — Marking of aerospace products*

EN 2693, *Aerospace series — Aluminium alloy AL-P5086-H111 — Sheet and strip —  $0,3 \text{ mm} \leq a \leq 6 \text{ mm}$*

EN 2699, *Aerospace series — Aluminium alloy (5086) — Annealed and straightened (H111) — Drawn bar  $6 \leq D \leq 50 \text{ mm}$ <sup>1)</sup>*

EN 2798, *Aerospace series — Fluorocarbon rubber (FPM) — Low compression set — Hardness 80 IRHD*

EN 4054, *Aerospace series — Pipe couplings, loose flanges and seals — Seals in fluorocarbon rubber and armature in aluminium alloy — Technical specification*

EN 4814, *Aerospace series — Flange couplings up to 21 000 kPa — Technical specification — Inch series*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defence Organizations*

TR 4815, *Aerospace series — Flange couplings up to 21 000 kPa — Design standard — Inch series<sup>2)</sup>*

### 3 Required characteristics

#### 3.1 Configuration - Dimensions - Tolerances - Masses

See Figure 1 and Table 1. Dimensions and tolerances are in millimetres, except otherwise specified.

#### 3.2 Material

Plate: EN 2693 or EN 2699.

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1) Published as ASD-STAN Prestandard at the date of publication of this standard. (<http://www.asd-stan.org/>)

2) Published as ASD-STAN Technical Report at the date of publication of this standard. (<http://www.asd-stan.org/>)



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