



BSI Standards Publication

**Aerospace series — Flange couplings
— Gasket seal with nickel alloy C seal —
Technical specification — Inch series**

National foreword

This British Standard is the UK implementation of EN 4816:2017.

The UK participation in its preparation was entrusted to Technical Committee ACE/12, Aerospace fasteners and fastening systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Published by BSI Standards Limited 2017

ISBN 978 0 580 95257 9

ICS 49.080

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2017.

Amendments/corrigenda issued since publication

Date	Text affected
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English Version

Aerospace series - Flange couplings - Gasket seal with nickel alloy C seal - Technical specification - Inch series

Série aérospatiale - Raccordement à bride - Joint
plaqué avec joint C en alliage de nickel - Spécification
technique - Série en inches

Luft- und Raumfahrt - Rohrverschraubung mit
Flanschen - Flachdichtung aus Nickellegierung mit
Armierung - Technische Lieferbedingung - Inch-Reihe

This European Standard was approved by CEN on 7 November 2016.

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European foreword

This document (EN 4816:2017) 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of an identical text or by endorsement, at the latest by November 2017 and conflicting national standards shall be withdrawn at the latest by November 2017.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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1 Scope

This standard specifies the required characteristics, inspection and test methods, quality assurance and procurement requirements for inch series, gasket seal with C seal in nickel alloy, for temperature ranges from type II to type V according to ISO 6771 and nominal pressure up to 10 500 kPa (class B according to ISO 6771).

In addition to the requirements of this technical specification, the coupling assemblies shall be qualified in accordance with equipment or component specification requirements.

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 2951, *Aerospace series — Metallic materials — Test method — Micrographic determination of content of non-metallic inclusions*¹⁾

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

EN 10204, *Metallic products — Types of inspection documents*

ISO 468, *Surface roughness — Parameters, their values and general rules for specifying requirements*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 6771, *Aerospace — Fluid systems and components — Pressure and temperature classifications*

ISO 8625-1, *Aerospace — Fluid systems — Vocabulary — Part 1: General terms and definitions related to pressure*

TR 2674, *Aerospace series — Design and construction of pipeline for fluids in liquid or gaseous condition — Rigid lines, installation*²⁾

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

MIL-PRF-23699, *Lubricating oil, aircraft turbine engine, synthetic base, NATO code numbers: O-152, O-154, O-156, and O-157*³⁾

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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/>)

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