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Aerospace series — Pipe coupling 8°30' in titanium alloy — Nut for welded ferrule

Série aérospatiale - Système de raccordement 8°30' en alliage de titane - Ecrou pour olive soudée

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html

This document was prepared by the Aerospace and Defence Industries Association of Europe — Standardization (ASD-STAN) as EN 4031:2001 and was adopted by Technical Committee ISO/TC 20, *Aircraft and space vehicles, Subcommittee SC 10, Aerospace fluid systems and components*.

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Aerospace series — Pipe coupling 8°30' in titanium alloy — Nut for welded ferrule

1 Scope

This document specifies the characteristics of nuts for welded ferrules, for pipe couplings 8°30', in titanium alloy, for aerospace applications.

Nominal pressure: up to 28 000 kPa

Temperature range: -55 °C to 135 °C

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.

ISO 5855-3, *Aerospace — MJ threads — Part 3: Limit dimensions for fittings for fluid systems*

ISO 8788, *Aerospace — Nuts, metric — Tolerances of form and position*

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

EN 2497, *Aerospace series — Dry abrasive blasting of titanium and titanium alloys*

EN 3275, *Aerospace series — Pipe coupling 8°30' up to 28 000 kPa — Dynamic beam seal — Metric series — Technical specification*

EN 3311, *Aerospace series — Titanium alloy TI-P64001 — Annealed — Bar for machining — D ≤ 150 mm¹⁾*

EN 3314, *Aerospace series — Titanium alloy TI-P64001 — Solution treated and aged — Bar for machining — D ≤ 75 mm¹⁾*

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

4 Required characteristics

4.1 Configuration — Dimensions

According to [Figure 1](#) and [Table 1](#). The values apply before lubricating.

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

4.2 Surface roughness

According to [Figure 1](#).

4.3 Material

According to EN 3311 or EN 3314.

4.4 Surface treatment

Lubrication: PTFE (e.g. Tegliss 31^{TM2}) coating shall be in accordance with [Annex A](#) on the 110° contact area. Only prior to application of the lubricant the surface shall be abrasive blasted using non-metallic grit according to EN 2497.

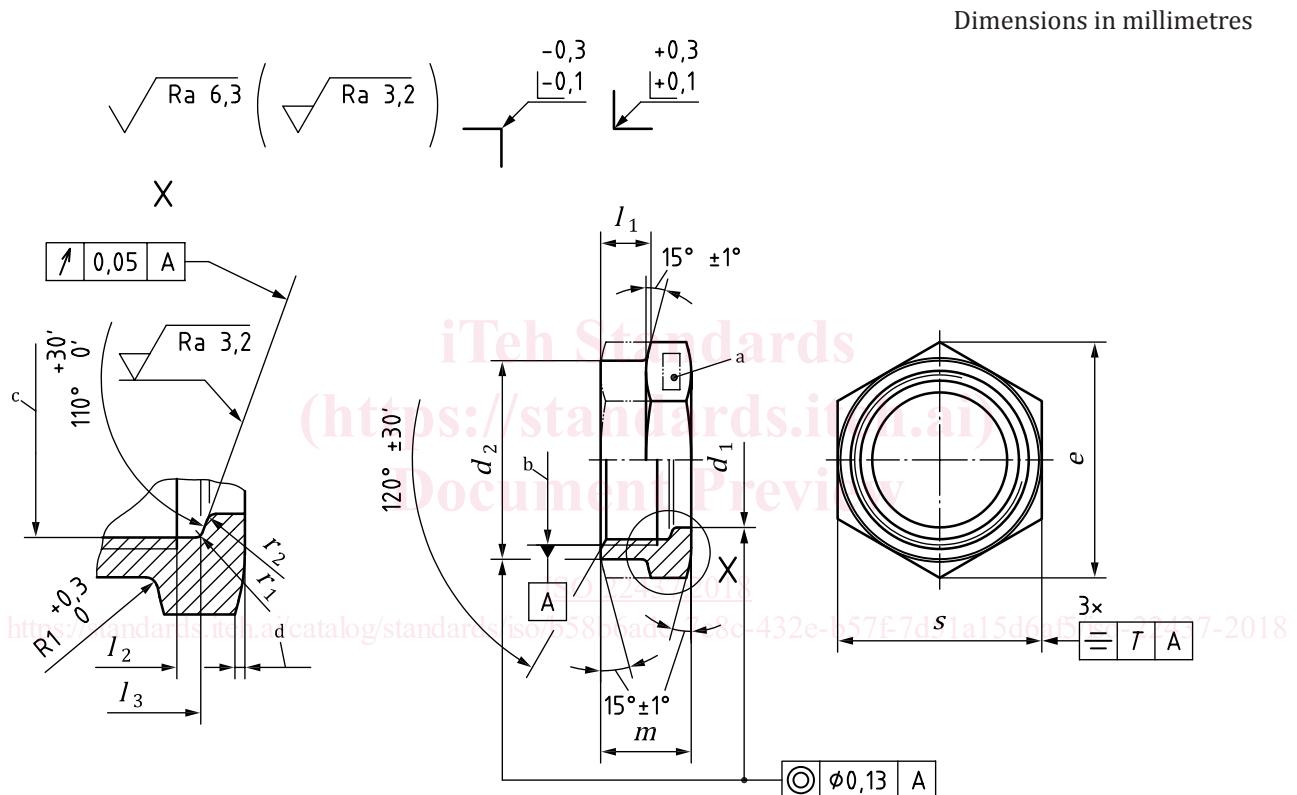


Figure 1

2) Tegliss 31TM is an example of a suitable product available commercially. This information is only given for the convenience of users of this document and does not constitute an endorsement by ISO of this product.