SLOVENSKI STANDARD

SIST EN 4175:2006

01-september-2006

Aeronavtika ï Pritrdilni obroļ i, strińni tip, iz titana TI-P99002, metrska serija

Aerospace series - Collars, flanged swage locking, sheartype, in titanium TI-P99002, metric series

Luft- und Raumfahrt - Schließringe, mit Bund, Schertyp, aus Titan TI-P99002, metrische Reihe

Série aérospatiale - Bagues à sertir, à collerette, à cisaillement, en titane TI-P99002, série métrique

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Ta slovenski standard je istoveten z: EN 4175:2005

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ICS:

49.030.50

SIST EN 4175:2006 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4175

November 2005

ICS 49.030.50

English Version

Aerospace series - Collars, flanged swage locking, sheartype, in titanium TI-P99002, metric series

Série aérospatiale - Bagues à sertir, à collerette, à cisaillement, en titane TI-P99002, série métrique

Luft- und Raumfahrt - Schließringe, mit Bund, Schertyp, aus Titan TI-P99002, metrische Reihe

This European Standard was approved by CEN on 30 September 2005.

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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 Central Secretariat 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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Foreword

This European Standard (EN 4175:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] 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 European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies the characteristics of flanged swage collars, sheartype, in titanium TI-P99002, metric series, for maximum operating temperature 315 °C and composite applications.

2 Normative references

The following referenced documents are indispensable for the application 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 2424, *Aerospace series – Marking of aerospace products.*

EN 3460, *Aerospace series – Titanium TI-P99002 – Annealed – Bar for machining – a or D ≤ 150 mm – $R_m \geq 390$ MPa.* [1)]

EN 4176, *Aerospace series – Lockbolts, 100° countersunk normal head or protruding head, tension- / sheartype, close tolerance, in titanium alloy TI-P64001, anodized or with aluminium pigmented coating – Collars in titanium TI-P99002 or aluminium alloy 2024 – Metric series – Technical specification.* [1)]

MIL-L-46010D, *Lubricant, Solid Film, Heat Cured, Corrosion Inhibiting.* [2)]

MIL-L-87132B, *Lubricant, Cetyl Alcohol, 1-Hexadecanol, Application to Fasteners.* [2)]

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3 Required characteristics

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3.1 Configuration – Dimensions – Masses

See Figure 1 and Table 1. Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

3.2 Material

See EN 3460.

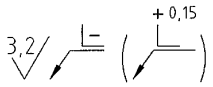
3.3 Surface treatments

MIL-L-46010

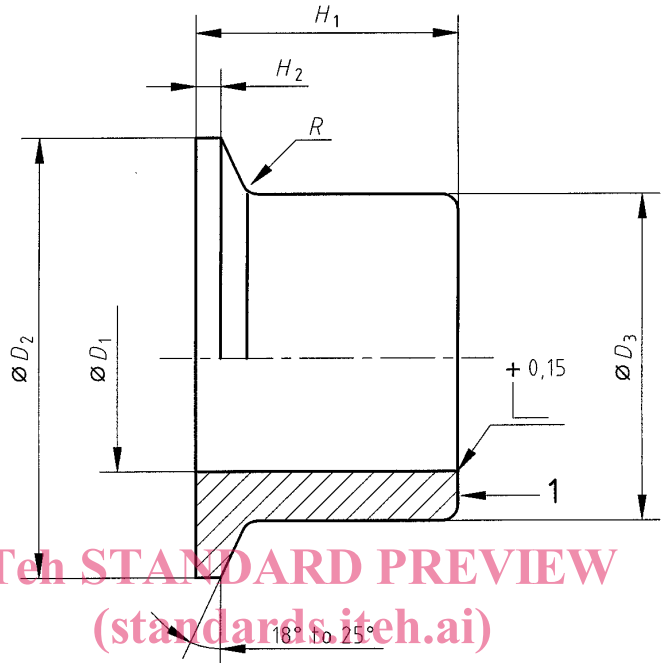
Lubrication with cetylic alcohol (chlorine free) according to MIL-L-87132

1) Published as AECMA Prestandard at the date of preparation of this standard.

2) Published by: Department of Defense (DoD), the Pentagon, Washington, D.C.20301, USA.



Values in micrometres apply prior to surface treatment.



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Key

1 Marking

Figure 1

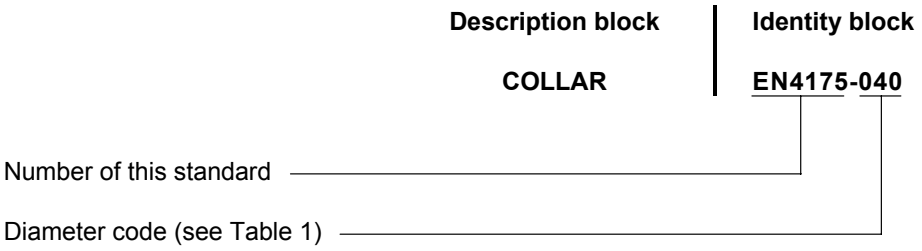
Table 1

Diameter code	D_1 0 / – 0,1	D_2 0 / – 0,15	D_3 0 / – 0,1	H_1 0 / – 0,5	H_2 0 / – 0,25	R max.	R min.	**Mass** [a]
040	4,05	8,17	6,07	5,76	0,76	0,46	0,2	0,51
050	5,05	10,2	7,22	6,32				0,70
060	6,05	11,48	8,58	7,21	0,89			1,27
080	8,05	15,47	11,48	9,47		0,58	0,33	2,55
100	10,05	18,69	14,23	11,2				4,11

[a] Approximate values (kg/1 000 pieces), calculated on the basis of 4,45 kg/dm^3, given for information purposes only.

4 Designation

EXAMPLE



NOTE If necessary, the code I9005 shall be placed between the description block and the identity block

5 Marking

EN 2424, style F (see Figure 1).

6 Technical specification

See EN 4176.

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