
Aeronavtika - Pritrdilni obroči, strižni tip, iz aluminijeve zlitine 2024, anodizirani ali kromirani, metrska serija

Aerospace series - Collars, swage locking, sheartype, in aluminium alloy 2024, anodized or chromated, metric series

Luft- und Raumfahrt - Schließringe, Schertyp, aus Aluminiumlegierung 2024, anodisiert oder chromatiert, metrische Reihe

Série aérospatiale - Bagues à sertir, à cisaillement, en alliage d'aluminium 2024, anodisées ou chromatées, série métrique

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Ta slovenski standard je istoveten z: EN 4174:2006

ICS:

49.025.20	Aluminij	Aluminium
49.030.50	Podložke in drugi blokirni elementi	Washers and other locking elements

SIST EN 4174:2008**en,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4174

April 2006

ICS 49.030.50

English Version

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This European Standard was approved by CEN on 13 January 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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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 4174:2006) 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 October 2006, and conflicting national standards shall be withdrawn at the latest by October 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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EN 4174:2006 (E)**1 Scope**

This standard specifies the characteristics of swage collars, sheartype, in aluminium alloy 2024, anodized or chromated, metric series, for maximum operating temperature 120 °C.

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 2284, *Aerospace series – Sulphuric acid anodizing of aluminium and wrought aluminium alloys.*

EN 2319, *Aerospace series – Aluminium alloy 2024-T3510 drawn bar $a \leq 75$ mm.* ¹⁾

EN 2320, *Aerospace series – Aluminium alloy 2024-T4 drawn bar $a \leq 75$ mm.* ¹⁾

EN 2424, *Aerospace series – Marking of aerospace products.*

EN 2437, *Aerospace series – Chromate conversion coatings (yellow) for aluminium and aluminium alloys.*

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

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

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3 Required characteristics**3.1 Configuration - Dimensions - Masses**

See Figure 1 and Table 2.

Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

3.2 Materials

See EN 2319 or EN 2320.

3.3 Surface treatments

See Table 1.

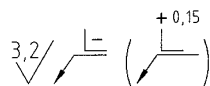
1) Published as AECMA Standard at the date of preparation of this standard.

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

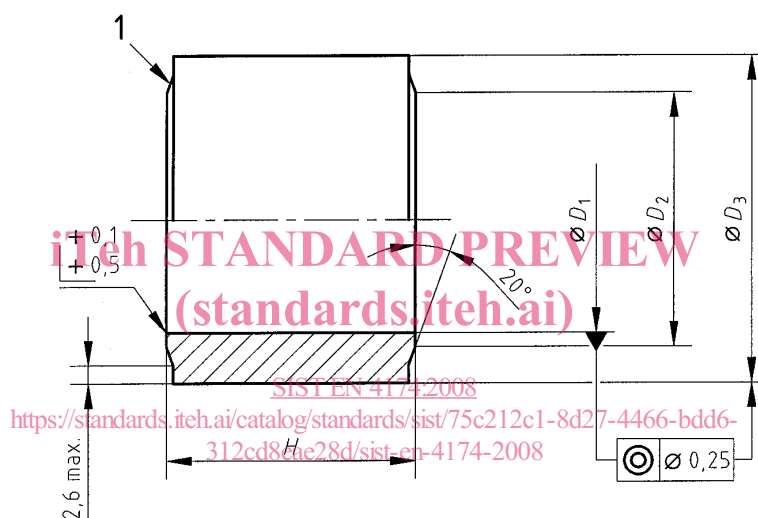
Table 1

Nature		Code
EN2284B	Chromic anodizing (silver)	A
EN2437A2	Clear chromated	B

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



Values in micrometres apply prior to surface treatment.



Key

1 Marking

Figure 1

Table 2

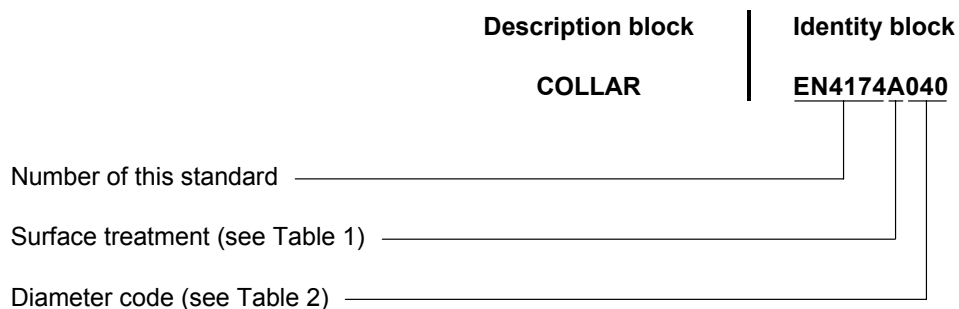
Diameter code	D_1	D_2		D_3		H		Mass ^a
	0 - 0,15	max.	min.	max.	min.	max.	min.	
040	4,1	4,77	4,2	6,1	5,95	5,6	5,2	0,24
050	5,1	5,6	5,2	7,25	7,1	6,15	5,75	0,32
060	6,1	7,1	6,2	8,6	8,43	7	6,6	0,57
080	8,1	9	8,2	11,6	11,25	8,8	8,35	1,58
100	10,1	11,2	10,2	14,35	14	10,25	9,75	2,54

^a Approximate values (kg/1 000 pieces), calculated on the basis of 2,76 kg/dm³, given for information purposes only.

EN 4174:2006 (E)

4 Description

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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