

SLOVENSKI STANDARD SIST EN 3017:2008

01-september-2008

Aeronavtika - Tesnilne podložke - Toplotnoodporno jeklo

Aerospace series - Washers, facing/packing - Heat resisting steel

Luft- und Raumfahrt - Dichtungsscheiben - Hochwarmfester Stahl

iTeh STANDARD PREVIEW

Série aérospatiale - Rondelles de garniture - Acier résistant à chaud

Ta slovenski standard je istoveten 2: EN.3017:2008 https://standards.iteh.avcatalog/standards/sist/889af599-87d4-4d70-a5ac-

527ff8a36856/sist-en-3017-2008

ICS:

49.030.50 Podložke in drugi blokirni Washers and other locking

elementi elements

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EUROPEAN STANDARD

EN 3017

NORME EUROPÉENNE EUROPÄISCHE NORM

June 2008

ICS 49.030.50

English Version

Aerospace series - Washers, facing/packing - Heat resisting steel

Série aérospatiale - Rondelles de garniture - Acier résistant à chaud

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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 Management Centre 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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Normative references	Contents				
2 Normative references 4 3 Required characteristics 4 3.1 Configuration, dimensions, tolerances, masses 4 3.2 Materials 4 3.3 Surface roughness 4 3.4 Surface treatment 5 4 Designation 6 5 Marking 6 Figures Figure 1 — Configuration 5	Forev				
3 Required characteristics 4 3.1 Configuration, dimensions, tolerances, masses 4 3.2 Materials 4 3.3 Surface roughness 4 3.4 Surface treatment 5 4 Designation 6 5 Marking 6 Figures Figure 1 — Configuration 5	1	Scope	4		
3.1 Configuration, dimensions, tolerances, masses	2	Normative references	4		
5 Marking	3 3.1 3.2 3.3 3.4	Configuration, dimensions, tolerances, masses	4		
5 Marking6 Figures Figure 1 — Configuration5	4	Designation	6		
Figures Figure 1 — Configuration5	5				
	•	res			
	9				
Tables (standards.iteh.ai)		(stanuarus.iten.ar)			
Table 1 — Dimensions and masses <u>SIST EN 3017:2008</u>	Table	e 1 — Dimensions and masses	5		
https://standards.iteh.ai/catalog/standards/sist/889af399-87d4-4d70-a5ac-		https://standards.iteh.ai/catalog/standards/sist/889af399-87d4-4d70-a5ac-			

527ff8a36856/sist-en-3017-2008

Foreword

This document (EN 3017:2008) 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 December 2008, and conflicting national standards shall be withdrawn at the latest by December 2008.

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, Bulgaria, 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. ARD PREVIEW

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1 Scope

This standard specifies the characteristics of heat resisting steel, facing/packing washers for use in non load spreading aerospace applications at temperatures not exceeding 650 °C.

They are intended primarily for use as facing/packing washers under the head of bolts with strength classification up to 1 250 MPa to provide adequate clamping of slotted or recessed surfaces (especially on brackets and pipe clippings) and used for adjusting grip lengths of bolts.

These washers are not for use in load spreading applications for which EN 3016 washer shall be used.

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 2171, Aerospace series — Heat resisting steel FE-PA 92 HT, R_m > 900 MPa, bars

EN 2175, Aerospace series — Heat resisting alloy FE-PA2602 (X4NiCrTiMoV26-15), solution treated and precipitation treated — Sheet, strip and plate 0,5 mm \leq a \leq 10 mm, $R_{\rm m} \geq$ 850 MPa¹)

EN 2424, Aerospace series — Marking of aerospace products 1) PREVIEW

EN 2516, Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys

SIST EN 3017:2008

EN 3016, Aerospace series | Washers | countersunk, load spreading | Heat resisting steel 1)

527ff8a36856/sist-en-3017-2008

ISO 4759-3, Tolerances for fasteners — Part 3: Plain washers for bolts, screws and nuts — Product grades A and C

3 Required characteristics

3.1 Configuration, dimensions, tolerances, masses

The configuration shall be in accordance with Figure 1; the dimensions, tolerances and masses shall conform to the values shown in Figure 1 and in Table 1 after passivation.

The requirements of ISO 4759-3 may be applied for rollover and fracture tolerances for washers punched from sheet.

3.2 Materials

Steel EN 2171 or EN 2175.

3.3 Surface roughness

See Figure 1. The values apply before passivation.

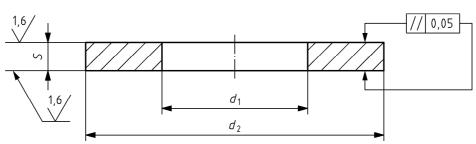
¹⁾ Published as AECMA prestandard at the date of publication of this standard.

3.4 Surface treatment

Passivation EN 2516.

Dimensions in millimetres





Break sharp edges 0,1 mm to 0,2 mm

Figure 1 — Configuration

Table 1 — Dimensions and masses

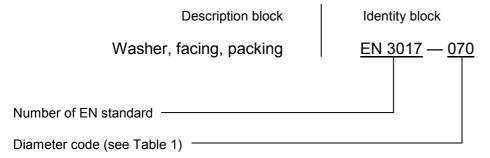
Diameter code	Bolt thread size mm Tel	d ₁ mm 1 STANI	d ₂ mm ARD PREVIEW		s a mm ± 0,10	Mass ^b 1 000 pieces kg
030	3×0,50	Standa	ards _z jeh.	± 0,20 399-87d4-4d70-a5	0,8	0,19
040	4 × 0,70	Ø 4,10 _{SIST}	EN 3017:2008			0,23
050	51×10,80 and	ards.i@n.5/44alog/s	tand@d 10 i, 50 89af		1,00	0,52
060	6 × 1,00	\emptyset 6,14	Ø 12,50			0,73
070	7 × 1,00	Ø 7,14	Ø 14,00			0,89
080	8 × 1,00	Ø 8,14	Ø 16,00	± 0,30		1,17
100	10 × 1,25	Ø 10,20	Ø 19,50		1,25	2,13
120	12 × 1,25	Ø 12,20	Ø 22,00			2,58
140	14 × 1,50	Ø 14,20	Ø 25,00			3,26

^a Flatness variations are included in thickness tolerances.

b Mass calculated on the basis of 7,85 kg/dm³.

4 Designation

Each washer shall only be designated as in the following example:



If necessary the originator code I9005 shall be placed between the description block and the identify block.

5 Marking

EN 2424, Style G (Packaging).

In addition, the quantity shall be declared (number).

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