



SLOVENSKI STANDARD
SIST EN 2553:2001
01-januar-2001

Aerospace series - Rivets, solid, 100° normal countersunk head with dome, in aluminium alloy 2017A, inch based series

Aerospace series - Rivets, solid, 100° normal countersunk head with dome, in aluminium alloy 2017A, inch based series

Luft- und Raumfahrt - Vollniete, mit 100° normalem Senkkopf mit Dom, aus Aluminiumlegierung 2017A, Inch-Reihe

Série aérospatiale - Rivets ordinaires, a tête fraisée 100° normale avec dôme, en alliage d'aluminium 2017A, série base inches

<https://standards.iteh.ai/catalog/standards/sist/8218186a-30d0-4312-bf29-f76fc4456c74/sist-en-2553-2001>

Ta slovenski standard je istoveten z: EN 2553:1992

ICS:

49.025.20	Aluminij	Aluminium
49.030.60	Kovice	Rivets

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EUROPEAN STANDARD

EN 2553:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1992

UDC 629.7:621.884.091.6-034.71

Descriptors: Aircraft industry, full rivet, countersunk head rivet, aluminium alloy, dimension, designation, marking

English version

**Aerospace series - Rivets, solid, 100° normal
countersunk head with dome, in aluminium alloy
2017A, inch based series**

Série aérospatiale - Rivets ordinaires, à tête
fraisée 100° normale avec dôme, en alliage
d'aluminium 2017A, série base inches

Luft- und Raumfahrt - Vollniete, mit 100°
normalem Senkkopf mit Dom, aus
Aluminiumlegierung 2017A, Inch-Reihe

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This European Standard was approved by CEN on 1992-11-16. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively 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 1993, and conflicting national standards shall be withdrawn at the latest by May 1993.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard :

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies the characteristics of solid rivets, with 100° normal countersunk head with dome, inch based series, in aluminium alloy, for maximum operating temperature 120 °C.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 2000, Aerospace series - Quality assurance - EN aerospace products - Approval of the quality system of manufacturers

EN 2116, Aerospace series - Aluminium alloy 2017A-H13 wire for solid rivets $D \leq 10$ mm ¹⁾

EN 2345, Aluminium and aluminium alloy rivets - Technical specification - Aerospace series ¹⁾

EN 2424, Aerospace series - Identification marking of standard fasteners ¹⁾

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3 Required characteristics

3.1 Configuration - Dimensions - Masses

See figure 1 and tables 1 and 2. Dimensions and tolerances are expressed in millimetres.

3.2 Material

EN 2116

The rivet shall be delivered in T4 condition.

¹⁾ Published as AECMA standard at the date of publication of the present standard

Table 2

Diameter code	024		032		040		048		056		064		080		096	
	Code	Mass 2) kg/1000 pieces	1) N	1) R	Mass 2) kg/1000 pieces	1) N	1) R	Mass 2) kg/1000 pieces	1) N	1) R	Mass 2) kg/1000 pieces	1) N	1) R	Mass 2) kg/1000 pieces	1) N	1) R
003	3	—			—			—			—			—		
004	4	0,080	x	x	0,147			—			—			—		
005	5	0,093	x	x	0,170			—			—			—		
006	6	0,106	x	x	0,193	x	x	—			—			—		
007	7	0,119	x	x	0,216	x	x	—			—			—		
008	8	0,132	x	x	0,239	x	x	0,615	x	x	—			—		
009	9	0,145	x	x	0,261	x	x	0,666	x	x	—			—		
010	10	0,158	x	x	0,284	x	x	0,717	x	x	1,020			—		
011	11	0,171	x	x	0,307	x	x	0,768	x	x	1,089			—		
012	12	0,184	x	x	0,330	x	x	0,819	x	x	1,158			—		
014	14	0,210	x	x	0,376	x	x	0,921	x	x	1,296	x	x	1,570		
016	16	0,236	x	x	0,422	x	x	1,023	x	x	1,434	x	x	1,750	x	x
018	18	0,262	x	x	0,467	x	x	1,125	x	x	1,572	x	x	1,930	x	x
020	20	0,288	x	x	0,513	x	x	1,227	x	x	1,710	x	x	2,110	x	x
022	22	0,314	x	x	0,559	x	x	1,329	x	x	1,848	x	x	2,290	x	x
024	24	0,340	x	x	0,605	x	x	1,431	x	x	1,986	x	x	2,470	x	x
026	26	0,366	x	x	0,651	x	x	1,533	x	x	2,124	x	x	2,650	x	x
028	28	0,392	x	x	0,696	x	x	1,635	x	x	2,262	x	x	2,830	x	x
030	30	0,418	x	x	0,742	x	x	1,737	x	x	2,400	x	x	3,010	x	x
032	32	0,444	x	x	0,788	x	x	1,839	x	x	2,538	x	x	3,190	x	x
035	35	0,483	x	x	0,856	x	x	1,992	x	x	2,745	x	x	3,370	x	x
040	40	—			0,971	x	x	2,247	x	x	3,090	x	x	3,640	x	x
045	45	—			1,085	x	x	2,502	x	x	3,435	x	x	4,090	x	x
050	50	—			—			2,757	x	x	3,780	x	x	4,540	x	x
055	55	—			—			3,012	x	x	4,125	x	x	4,990	x	x
060	60	—			—			3,267	x	x	4,470	x	x	5,440	x	x

1) Tail end code (see figure 1)

2) Approximate values, calculated on the basis of 2,76 kg/dm³, given for information purpose only

6 Technical specification

EN 2345 except for approval of manufacturers, see EN 2000.

7 Heat treatment prior to setting

Those rivets shall be installed within two hours of solution treatment by the user, unless other appropriate measures are taken to extend this time.

The solution treatment is performed at a temperature of $495\text{ °C} \pm 5\text{ °C}$ and quenching in water at a temperature not exceeding 40 °C .

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