



SLOVENSKI STANDARD
SIST EN 2143:2001
01-januar-2001

Aerospace series - Rivets, solid, universal head, in aluminium 1050A, inch based series

Aerospace series - Rivets, solid, universal head, in aluminium 1050A, inch based series

Luft- und Raumfahrt - Vollniete, mit Universalkopf, aus Aluminium 1050A, Inch-Reihe

Série aérospatiale - Rivets ordinaires, à tête ronde aplatie, en aluminium 1050A, série base inches

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Ta slovenski standard je istoveten z: **EN 2143:1992**
<https://standards.iteh.ai/catalog/standards/sist/c5795ac-1253-4247-b514-a91e8b8c3bd3/sist-en-2143-2001>

ICS:

49.025.20	Aluminij	Aluminium
49.030.60	Kovice	Rivets

SIST EN 2143:2001 en

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EUROPEAN STANDARD

EN 2143:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1992

UDC 621.884.2-034.715:629.7

Descriptors: Aircraft industry, full rivet, round head rivet, aluminium, dimension, designation

English version

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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.

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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of an identical text or by endorsement, at the latest by May 1993, and conflicting national standards shall be withdrawn at the latest by May 1993.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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STANDARDS INSTITUTION OF THE UNITED KINGDOM
LONDON

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BY THE INSTITUTION OF THE UNITED KINGDOM

1 Scope

This standard specifies the characteristics of solid rivets, with universal head, inch based series, in aluminium, 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 2114, Aerospace series - Aluminium 1050A-H14 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⁾

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 2114

The rivet shall be delivered in H14 condition.

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

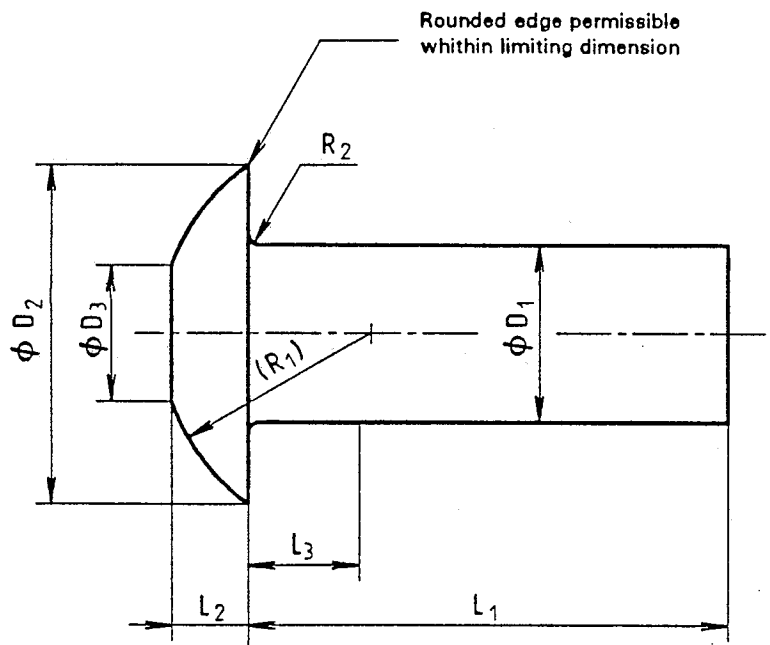


Figure 1
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Table 1

Diameter code	D_1 ¹⁾		D_2		D_3		L_2 + 0,2 0	L_3	R_1	R_2 $\pm 0,08$
	max.	min.	max.	min.	max.	min.				
016	1,65	1,55	3,35	3,05	1,6	1,2	0,7	1,45	2	0,15
024	2,45	2,35	5	4,5	2,4	1,8	1		2,9	
032	3,25	3,15	6,7	6	3,2	2,4	1,4		3,9	

1) D_1 max. may increase by 0,03, over length L_3 .

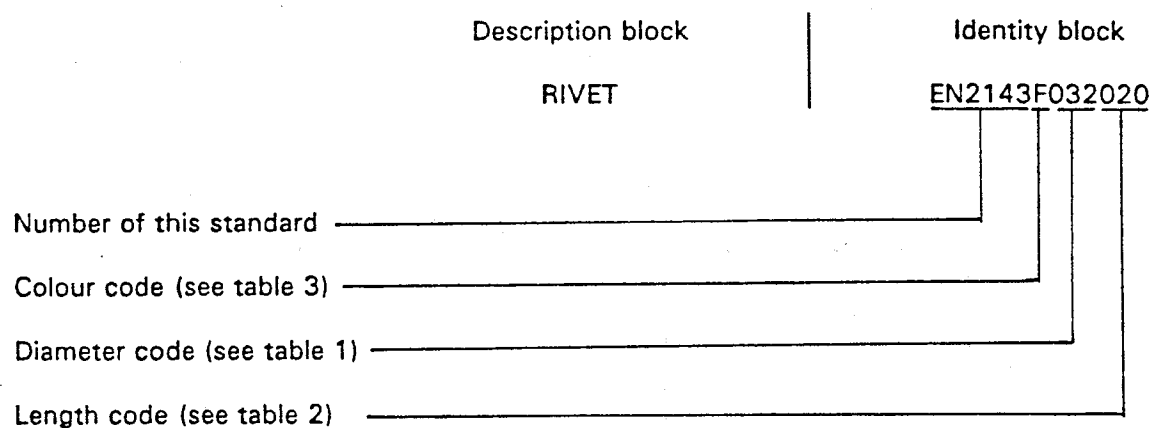
Table 2

Diameter code		016	024	032
Code	Length	Mass ¹⁾ kg/1000 pieces		
	$L_1 + 0,5$ 0			
004	4	0,030	0,074	0,149
005	5	0,036	0,087	0,172
006	6	0,042	0,100	0,194
007	7	0,047	0,113	0,217
008	8	0,053	0,125	0,239
009	9	0,059	0,138	0,262
010	10	0,064	0,150	0,284
011	11	0,070	0,163	0,307
012	12	0,075	0,176	0,329
014	14	0,087	0,201	0,374
016	16	0,100	0,225	0,419
018	18	—	0,250	0,465
020	20	—	0,275	0,510
022	22	—	0,301	0,555
024	24	—	0,326	0,600
026	26	—	0,351	0,645
028	28	—	0,377	0,691
030	30	—	0,402	0,736
032	32	—	0,427	0,781
035	35	—	0,466	0,849
040	40	—	—	0,960

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

4 Designation

Example:



Note: If necessary, the originator code 19005 shall be placed between the description block and the identity block.

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5 Marking

5.1 Rivet identification

EN 2424, style G

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5.2 Material identification

See table 3.

Table 3

Colour	Code
None	— (hyphen)
Red	F
The method of achieving is at the manufacturer's option.	

6 Technical specification

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