SLOVENSKI STANDARD
SIST EN 2555:2001

01-januar-2001

Aerospace series - Rivets, solid, 100° normal countersunk head with dome, in aluminium alloy 5056A, inch based series

Aerospace series - Rivets, solid, 100° normal countersunk head with dome, in aluminium alloy 5056A, inch based series

Luft- und Raumfahrt - Vollniete, mit 100° normalem Senkkopf mit Dom, aus Aluminiumlegierung 5056A, Inch-Reihe

Série aérospatiale - Rivets ordinaires, a tete fraisée 100° normale avec dôme, en alliage d'aluminium 5056A, série base inches

Ta slovenski standard je istoveten z: **EN 2555:1992**

ICS:

49.025.20	Aluminij	Aluminium
49.030.60	Kovice	Rivets

SIST EN 2555:2001 **en**

EUROPEAN STANDARD **EN 2555:1992**

NORME EUROPÉENNE

EUROPÄISCHE NORM November 1992

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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 5056A, inch based series

Série aérospatiale - Rivets ordinaires, à tête fraisée 100° normale avec dôme, en alliage d'aluminium 5056A, série base inches

Luft- und Raumfahrt - Vollniete, mit 100° normalem Senkkopf mit Dom, aus Aluminiumlegierung 5056A, Inch-Reihe

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.

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 2117, Aerospace series - Aluminium alloy 5056A-H32 wire for solid rivets D ≤ 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

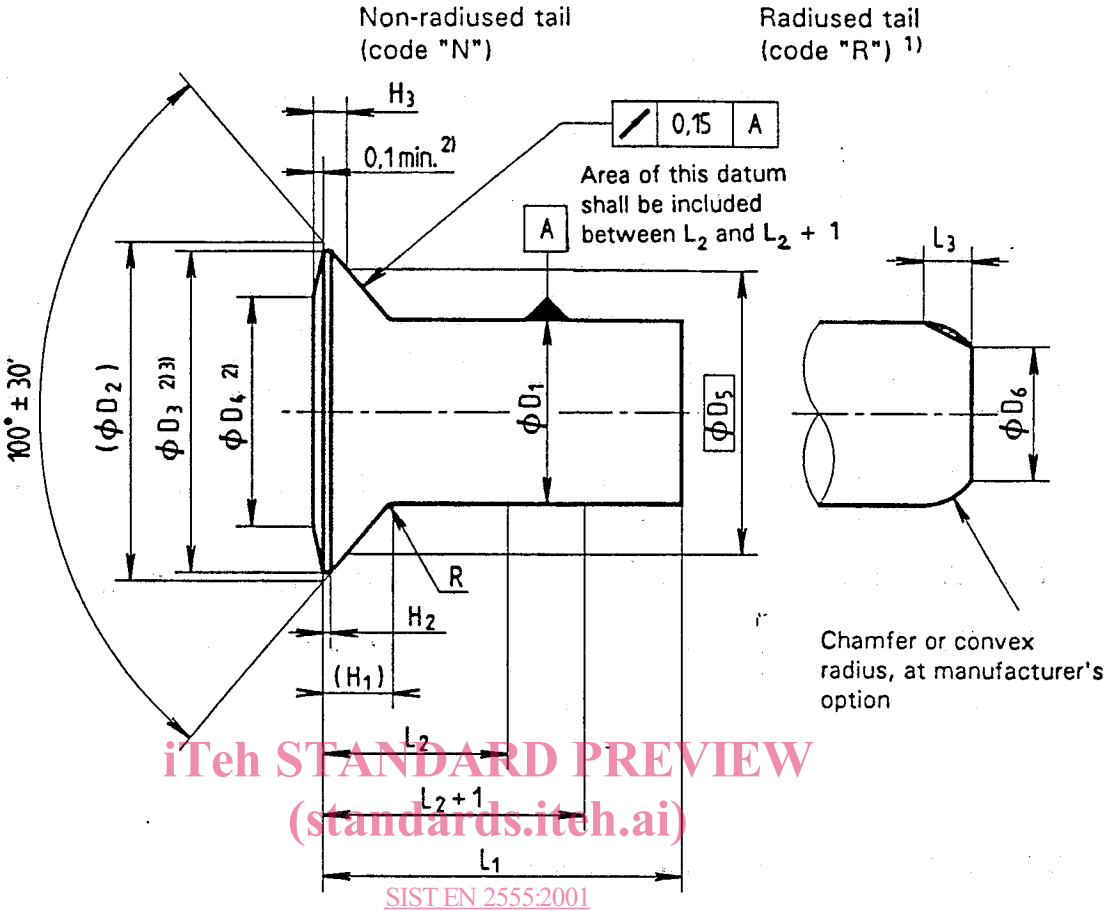
See figure 1 and tables 1 and 2. Dimensions and tolerances are expressed in millimetres.

3.2 Material

EN 2117

The rivet shall be delivered in H32 condition.

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



1) The length range is limited (see table 2).
2) Shape optional (except concave) within limiting dimensions
3) Blended convex form permissible within limiting dimensions

Figure 1

Table 1

Diameter code	D_1 1) max.	D_1 1) min.	D_2 2)	D_3 min.	D_4 max.	D_4 min.	D_5	D_6 max.	D_6 min.	H_1	H_2 min.	H_3 max.	H_3 min.	L_2	L_3 max.	L_3 min.	R ± 0,08
016	1,65	1,55	3	2,65	2,4	1,6	2,46	—	—	0,6	0,03	0,33	0,25	2,1	—	—	
024	2,45	2,35	4,65	4,2	3,6	2,4	3,84	1,9	1,6	0,9	0,05	0,44	0,36	2,4	0,8	0,5	0,15
032	3,25	3,15	5,8	5,3	4,8	3,2	4,88	2,6	2,3	1,1	0,06	0,49	0,41	2,6	1	0,7	
040	4,05	3,94	7,35	6,8	6	4	6,17	3,2	2,8	1,4	0,08	0,6	0,52	3	1,2	0,8	
048	4,85	4,73	9,05	8,4	7,2	4,8	7,57	3,8	3,3	1,8		0,72	0,64	3,8	1,5	1	0,25
056	5,65	5,33	10,65	10,1	8,4	5,6	8,89	4,5	3,9	2,1		0,84	0,76	4,1	1,8	1,2	

1) D_1 max. may increase by 0,03, over length (L_2-H_1).
2) Maximum condition

Table 2

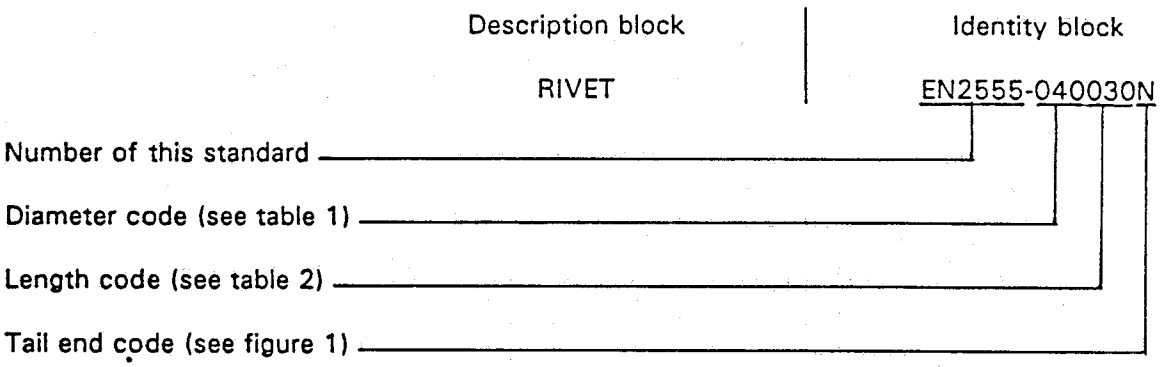
Diameter code		016			024			032			040			048			056		
Length		1)		Mass 2) kg/1000 pieces	1)		Mass 2) kg/1000 pieces	1)		Mass 2) kg/1000 pieces	1)		Mass 2) kg/1000 pieces	1)		Mass 2) kg/1000 pieces	1)		Mass 2) kg/1000 pieces
Code	L_1 $^{+0,5}_{0}$	N	R		N	R		N	R		N	R		N	R		N	R	
003	3	x		0,026			—			—			—			—			—
004	4	x		0,032	x	x	0,080	x	x	0,147			—			—			—
005	5	x		0,038	x	x	0,093	x	x	0,170			—			—			—
006	6	x		0,044	x	x	0,106	x	x	0,193	x	x	0,323			—			—
007	7	x		0,050	x	x	0,119	x	x	0,216	x	x	0,358			—			—
008	8	x		0,056	x	x	0,132	x	x	0,239	x	x	0,394	x	x	0,615			—
009	9	x		0,062	x	x	0,145	x	x	0,261	x	x	0,430	x	x	0,666			—
010	10	x		0,067	x	x	0,158	x	x	0,284	x	x	0,465	x	x	0,717	x	x	1,020
011	11	x		0,073	x	x	0,171	x	x	0,307	x	x	0,500	x	x	0,768	x	x	1,089
012	12	x		0,079	x	x	0,184	x	x	0,330	x	x	0,536	x	x	0,819	x	x	1,158
014	14	x		0,091	x	x	0,210	x	x	0,376	x	x	0,607	x	x	0,921	x	x	1,296
016	16	x		0,103	x	x	0,236	x	x	0,422	x	x	0,678	x	x	1,023	x	x	1,434
018	18			—	x		0,262	x	x	0,467	x	x	0,750	x	x	1,125	x	x	1,572
020	20			—	x		0,288	x		0,513	x	x	0,820	x	x	1,227	x	x	1,710
022	22			—	x		0,314	x		0,559	x	x	0,891	x	x	1,329	x	x	1,848
024	24			—	x		0,340	x		0,605	x	x	0,962	x	x	1,431	x	x	1,986
026	26			—	x		0,366	x		0,651	x		1,033	x	x	1,533	x	x	2,124
028	28			—	x		0,392	x		0,696	x		1,105	x	x	1,635	x	x	2,262
030	30			—	x		0,418	x		0,742	x		1,176	x		1,737	x	x	2,400
032	32			—	x		0,444	x		0,788	x		1,247	x		1,839	x	x	2,538
035	35			—	x		0,483	x		0,856	x		1,353	x		1,992	x		2,745
040	40			—			—	x		0,971	x		1,531	x		2,247	x		3,090
045	45			—			—	x		1,085	x		1,709	x		2,502	x		3,435
050	50			—			—			—	x		1,886	x		2,757	x		3,780
055	55			—			—			—			—	x		3,012	x		4,125
060	60			—			—			—			—	x		3,267	x		4,470

1) Tail end code (see figure 1)

2) Approximate values, calculated on the basis of 2,76 kg/dm^3, given for information purpose only

4 Designation

Example:



Note: If necessary, the originator code I9005 shall be placed between the description block and the identity block.

5 Marking

5.1 Rivet identification

EN 2424, style G

5.2 Material identification

See figure 2 and table 3.
Symbol at manufacturer's option

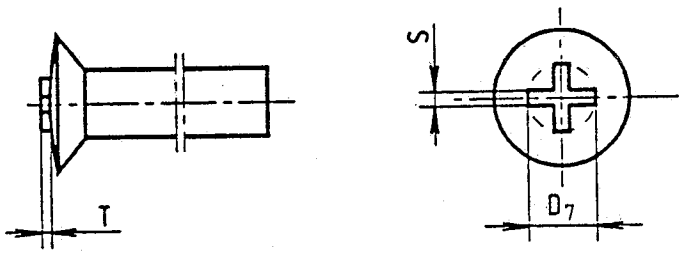


Figure 2

Table 3

Diameter code	016	024	032	040	048	056
T ± 0,05	0,13			0,15		
S max.	0,8					
D_7 max.	D_1 max. (see table 1)					

6 Technical specification

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