



SLOVENSKI STANDARD

SIST EN 3643:2001

01-januar-2001

Aerospace series - Rivets, solid, 100° countersunk normal head, in titanium TI-PO2, anodized, inch based series

Aerospace series - Rivets, solid, 100° countersunk normal head, in titanium TI-PO2, anodized, inch based series

Luft- und Raumfahrt - Vollniete, mit 100° normalem Senkkopf, aus Titan TI-PO2, anodisiert, Zoll-Reihe

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Série aérospatiale - Rivets ordinaires, a tête fraisée 100° normale, en titane TI-PO2, anodisés, série base inches

[SIST EN 3643:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/03e35ea6-8364-4ffd-bc07-1df31c6e24b3/sist-en-3643-2001>

Ta slovenski standard je istoveten z: EN 3643:1996

ICS:

49.030.60 Kovice Rivets

SIST EN 3643:2001 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 3643:2001

<https://standards.iteh.ai/catalog/standards/sist/03e35ea6-8364-4ffd-bc07-1df31c6e24b3/sist-en-3643-2001>

EUROPEAN STANDARD

EN 3643

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1996

ICS 49.040.20

Descriptors: aircraft industry, rivet, countersunk head rivet, titanium, characteristic, dimension, dimensional tolerance, designation

English version

**Aerospace series - Rivets, solid, 100°
countersunk normal head, in titanium TI-PO2,
anodized, inch based series**

Série aérospatiale - Rivets ordinaires, à tête
fraisée 100° normale, en titane TI-PO2,
anodisés, série base inches

Luft- und Raumfahrt - Vollniete, mit 100°
normalem Senkopf, aus Titan TI-PO2, anodisiert,
Zoll-Reihe

(standards.iteh.ai)

SIST EN 3643:2001

<https://standards.iteh.ai/catalog/standards/sist/03e35ea6-8364-4ffd-bc07-1df1c6e24b3/sist-en-3643-2001>

This European Standard was approved by CEN on 1996-06-29. 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

Page 2
EN 3643:1996

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 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 March 1997, and conflicting national standards shall be withdrawn at the latest by March 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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.



SIST EN 3643:2001
<https://standards.iteh.ai/catalog/standards/sist/en-3643-2001>
STANDARD PREVIEW
(standards.iteh.ai)

1 Scope

This standard specifies the characteristics of solid rivets, with 100° countersunk normal head, in titanium TI-P02, anodized, inch based series, for maximum operating temperature 315 °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.

ISO 8080	Aerospace - Anodic treatment of titanium and titanium alloys - Sulfuric acid process
ISO 10299	Aerospace - Identification marking of solid rivets ¹⁾
EN 2424	Aerospace series - Marking of aerospace products
EN 3378	Aerospace series - Titanium TI-P02 - Annealed - $330 \leq R_c \leq 410$ MPa - Wire for rivet - $1,6 \leq d \leq 10$ mm ²⁾
EN 3627	Aerospace series - Titanium solid rivets - Technical specification ¹⁾

iTeh STANDARD PREVIEW
(standards.iteh.ai)

3 Required characteristics

[SIST EN 3643:2001](https://standards.iteh.ai/catalog/standards/sist/03e35ea6-8364-4ffd-bc07-1df31c6e24b3/sist-en-3643-2001)

<https://standards.iteh.ai/catalog/standards/sist/03e35ea6-8364-4ffd-bc07-1df31c6e24b3/sist-en-3643-2001>

3.1 Configuration - Dimensions - Masses

See figure 1 and tables 1 and 2. Dimensions and tolerances are expressed in millimetres and apply after surface treatment.

3.2 Material

EN 3378

3.3 Surface treatment

ISO 8080

1) In preparation at the date of publication of this standard

2) Published as AECMA Prestandard at the date of publication of this standard

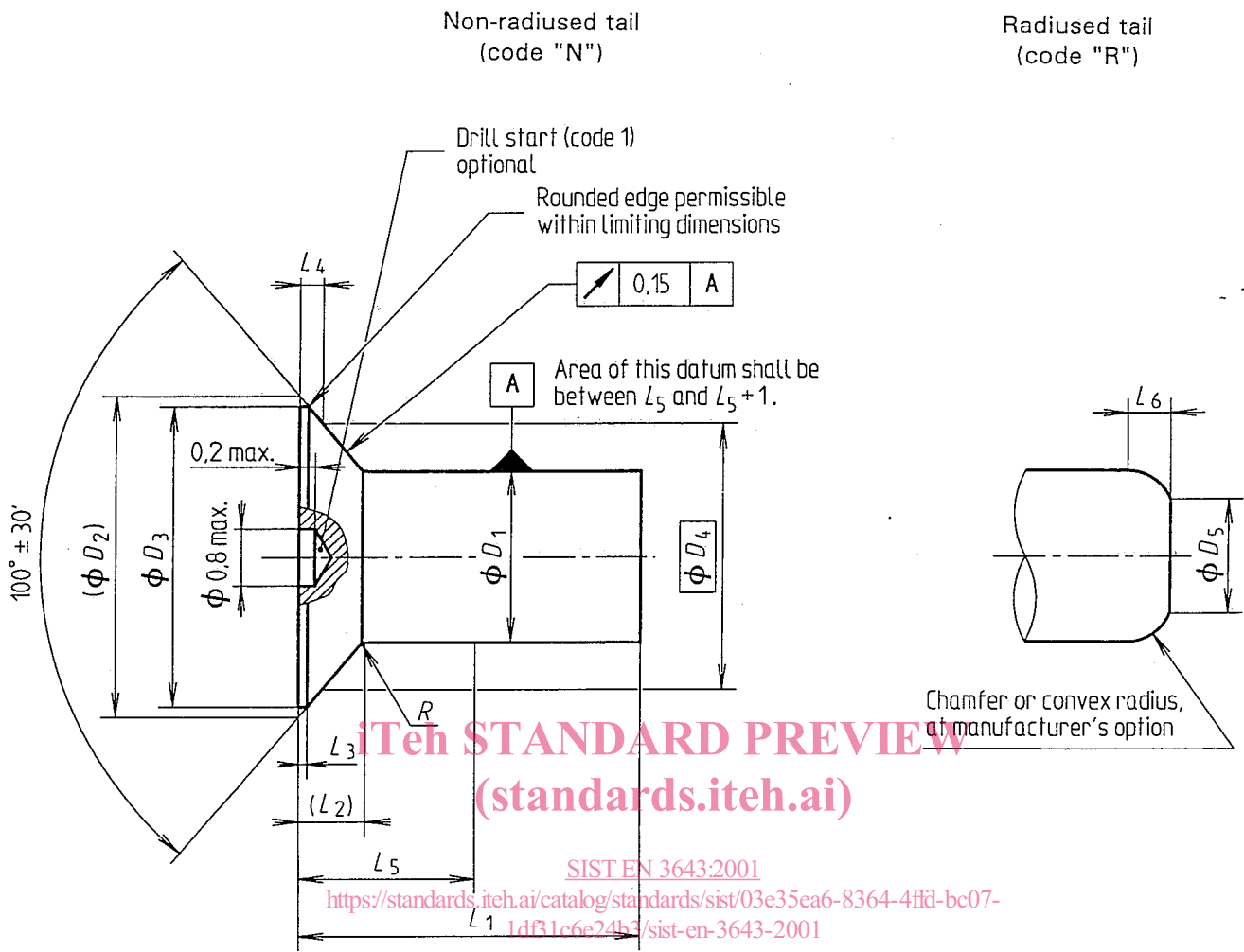


Figure 1

Table 1

Diameter code	D_1 ¹⁾		D_2 ²⁾	D_3	D_4	D_5		L_2	L_3	L_4	L_5	L_6		R
	max.	min.		min.		max.	min.		min.	0 -0,08		max.	min.	± 0,08
024	2,45	2,35	4,45	4	3,54	1,9	1,6	0,9	0,05	0,38	2,4	0,8	0,5	0,15
032	3,25	3,15	5,95	5,35	4,82	2,6	2,3	1,1	0,06	0,47	2,6	1	0,7	
036	3,65	3,55	6,7	6	5,46	2,9	2,5	1,3	0,07	0,52	2,9	1,1	0,8	0,25
040	4,05	3,94	7,4	6,6	5,79	3,2	2,8	1,4	0,08	0,68	3	1,2	0,8	
048	4,85	4,73	8,9	7,95	7,39	3,8	3,3	1,8	0,1	0,63	3,8	1,5	1	

1) D_1 max. may increase by 0,03, over length ($L_5 - L_2$).

2) Maximum condition

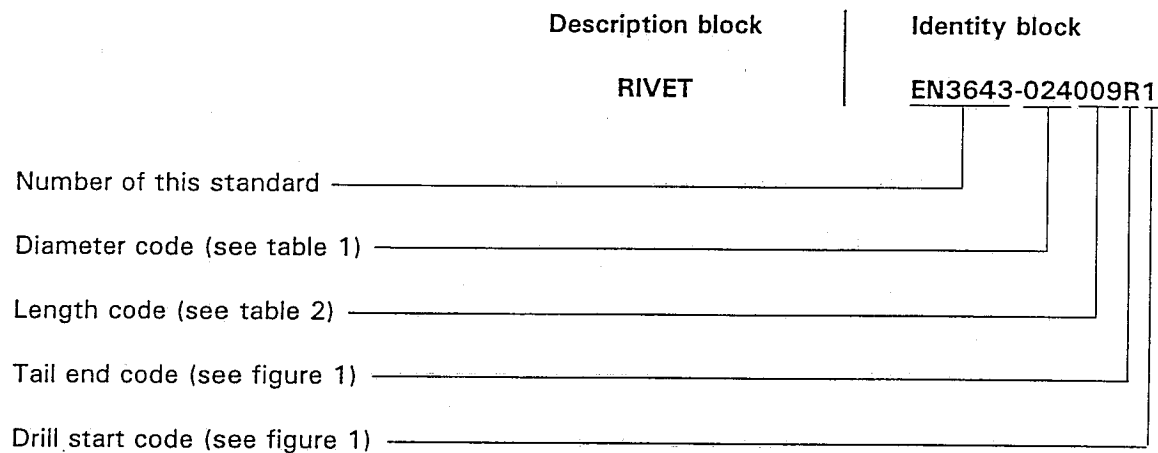
Table 2

Diameter code		024			032			036			040			048		
code	Length $L_1 + 0,5$ 0	1)		Mass ²⁾	1)		Mass ²⁾	1)		Mass ²⁾	1)		Mass ²⁾	1)		Mass ²⁾
		N	R		N	R		N	R		N	R		N	R	
004	4	X	X	0,101	X	X	0,191	X	X	0,257						
005	5	X	X	0,121	X	X	0,227	X	X	0,302						
006	6	X	X	0,142	X	X	0,263	X	X	0,344	X	X	0,432			
007	7	X	X	0,162	X	X	0,299	X	X	0,384	X	X	0,488			
008	8	X	X	0,183	X	X	0,335	X	X	0,427	X	X	0,544	X	X	0,808
009	9	X	X	0,203	X	X	0,371	X	X	0,469	X	X	0,600	X	X	0,889
010	10	X	X	0,223	X	X	0,408	X	X	0,511	X	X	0,656	X	X	0,970
011	11	X	X	0,244	X	X	0,444	X	X	0,552	X	X	0,712	X	X	1,051
012	12	X	X	0,264	X	X	0,480	X	X	0,595	X	X	0,769	X	X	1,134
013	13	X	X	0,285	X	X	0,516	X	X	0,637	X	X	0,825	X	X	1,215
014	14	X	X	0,305	X	X	0,552	X	X	0,678	X	X	0,882	X	X	1,297
015	15	X	X	0,325	X	X	0,589	X	X	0,720	X	X	0,938	X	X	1,378
016	16	X	X	0,346	X	X	0,625	X	X	0,764	X	X	0,995	X	X	1,460
017	17	X		0,366	X	X	0,661	X	X	0,805	X	X	1,051	X	X	1,541
018	18	X		0,387	X	X	0,697	X	X	0,847	X	X	1,108	X	X	1,623
019	19	X		0,407	X		0,733	X	X	0,890	X	X	1,164	X	X	1,704
020	20	X		0,427	X		0,770	X	X	0,932	X	X	1,221	X	X	1,785
022	22				X		0,842	X		1,015	X	X	1,334	X	X	1,949
024	24				X		0,914	X		1,100	X	X	1,447	X	X	2,111
026	26							X		1,183	X		1,560	X	X	2,274
028	28							X		1,270	X		1,673	X	X	2,437
030	30										X		1,787	X		2,599
032	32										X		1,900	X		2,762
035	35													X		2,925
040	40													X		3,088

1) Tail end code (see figure 1)
2) Approximate values (kg/1 000 pieces), calculated on the basis of 4,45 kg/dm³, given for information purposes only

4 Designation

EXAMPLE :



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

iTeh STANDARD PREVIEW (standards.iteh.ai)

5 Marking

5.1 Rivet

EN 2424, style G

[SIST EN 3643:2001](https://standards.iteh.ai/catalog/standards/sist/03e35ea6-8364-4ffd-bc07-1df31c6e24b3/sist-en-3643-2001)<https://standards.iteh.ai/catalog/standards/sist/03e35ea6-8364-4ffd-bc07-1df31c6e24b3/sist-en-3643-2001>

5.2 Material

ISO 10299

6 Technical specification

EN 3627