SLOVENSKI STANDARD
SIST EN 4168:2005

01-junij-2005

Nadomeġļa:
SIST EN 4168:2004

Aerospace series - Clips, spring tension, three parts - Outer clips in heat resisting steel FE-PA2601 (A286)

Aerospace series - Clips, spring tension, three parts - Outer clips in heat resisting steel FE-PA2601 (A286)

Luft- und Raumfahrt - Rohrschellen, federnd, dreiteilig - Außenschelle aus hochwarmfestem Stahl FE-PA2601 (A286)

Série aérospatiale - Colliers de fixation a ressort en trois parties - Demi-colliers extérieurs en acier résistant a chaud FE-PA2601 (A286)

Ta slovenski standard je istoveten z: **EN 4168:2004**

ICS:

49.080	Letalski in vesoljski hidravliļ ni sistemi in deli	Aerospace fluid systems and components

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EUROPEAN STANDARD

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Aerospace series - Clips, spring tension, three parts - Outer clips in heat resisting steel FE-PA2601 (A286)

Série aérospatiale - Colliers de fixation à ressort en trois parties - Demi-colliers extérieurs, en acier résistant à chaud FE-PA2601 (A286)

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This European Standard was approved by CEN on 11 September 2003.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

Page

Foreword

This document (EN 4168:2004) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 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 June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

This document supersedes EN 4168:2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies the characteristics of outer clips, three part clips, spring tension, in FE-PA2601 for applications at a maximum temperature of 260 °C, for aerospace applications.

They shall be assembled with parts from EN 4166 and EN 4167.

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 2424, *Aerospace series – Marking of aerospace products*

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

EN 3638, *Aerospace series – Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) – Consumable electrode remelted – Solution and precipitation treated – Sheet, strip and plate – 0,5 mm ≤ a ≤ 10 mm* [1)]

EN 4166, *Aerospace series – Clips, spring tension, three parts – PTFE bushes*

EN 4167, *Aerospace series – Clips, spring tension, three parts – Inner clips in heat resisting steel FE-PA2601 (A286)*

EN 9100, *Aerospace series - Quality management systems - Requirements (based on ISO 9001:2000) and Quality systems - Model for quality assurance in design, development, production, installation and servicing (based on ISO 9001:1994)*

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figure 1 and Table 1.

Dimensions and tolerances are in millimetres. They apply after passivation.

3.2 Materials

EN 3638

3.3 Surface treatment

EN 2516

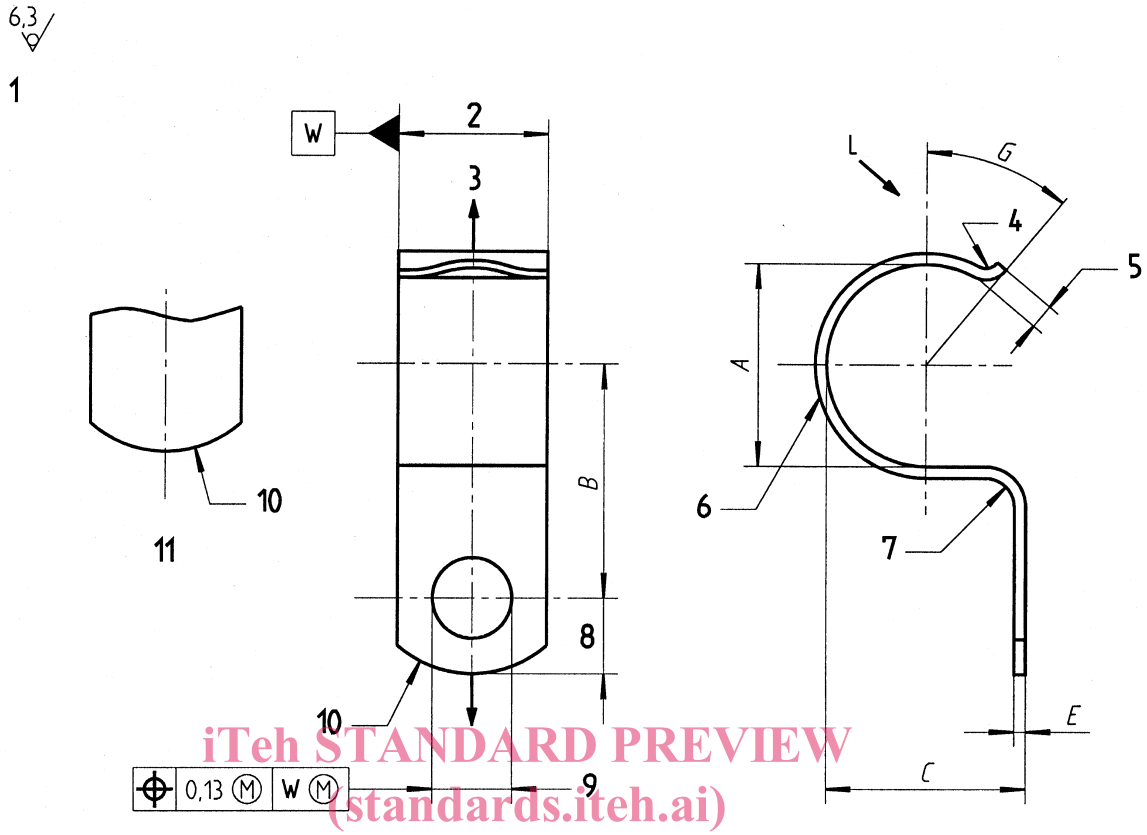
3.4 Heat treatment

Precipitation heat treated after forming

3.5 Hardness

260 HV to 345 HV

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



Key

1 break sharp edges 0,1 to 0,4
2 10,4 to 10,8
3 direction of grain
4 R = 1 to 1,5
5 1,5 to 2
6 marking
7 R = 2 to 2,5
8 5,1 to 5,3
9 diameter 5,5 to 5,8
10 R = 7 to 9
11 view along L

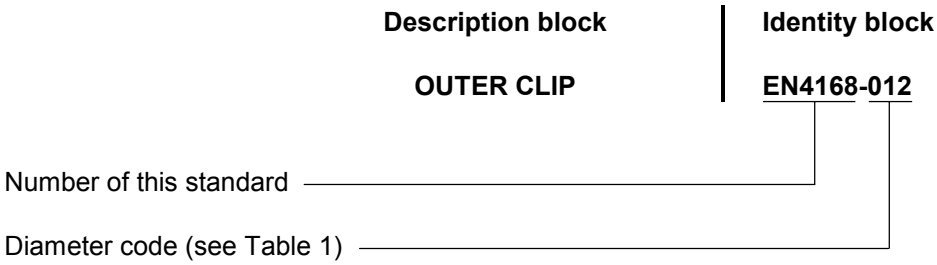
Figure 1

Table 1

Diameter code	*A*		*B*		*C*		*E*		*G*		Mass kg/1 000 parts ≈
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	
004	8,7	8,1	13,6	13,1	8,7	8,1	0,9	0,7	45°	35°	17
006	10,6	10	14,5	14	10,6	10					19
008	12,5	11,9	15,5	15	12,5	11,9					22
010	14,3	13,7	16,4	15,9	14,3	13,7					24
012	16,7	15,7	17,8	17,3	16,5	15,9	1,1	0,9	55°	45°	35
014	18,5	17,5	18,7	17,7	18,3	17,7					39
016	20,3	19,3	19,6	18,6	20,1	19,5			65°	55°	45
018	22,1	21,1	20,5	20	21,9	21,3					44
020	24	23	21,5	21	23,8	23,2					53
025	28,3	27,3	24	23,5	28,1	27,5					62
032	35,3	34,3	27,5	27	35,1	34,5					78

4 Designation

EXAMPLE



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

5 Marking

EN 2424, style A, as indicated on Figure 1.

6 Quality assurance

The manufacturer's quality systems shall conform to EN 9100.