



SLOVENSKI STANDARD

SIST EN 2381:2001

01-januar-2001

Aerospace series - Aluminium alloy AL-P7009-T7452 - Hand forgings 40 mm < or = a < or = 150 mm

Aerospace series - Aluminium alloy AL-P7009-T7452 - Hand forgings 40 mm < or = a < or = 150 mm

Luft- und Raumfahrt - Aluminiumlegierung AL-P7009-T7452 - Freiformschmiedestücke
40 mm < oder = a < oder = 150 mm

Série aérospatiale - Alliage d'aluminium AL-P7009-T7452 - Pièces forgées 40 mm < ou =
a < ou = 150 mm SIST EN 2281-2001

<https://standards.iteh.ai/catalog/standards/sist/32a6c51f-876f-4be7-b2c3->

910e87f7c6d5/sist-en-2381-2001
Ta slovenski standard je istoveten z: EN 2381:1992

ICS:

49.025.20 Aluminij Aluminium

SIST EN 2381:2001 en

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[SIST EN 2381:2001](#)

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2381

September 1992

UDC : 669.715-4:621.73.042:629.7

Key words : Aircraft industry, forgings, aluminium alloys, specifications, chemical composition, dimensions, characteristics

English version

Aerospace series

Aluminium alloy AL-P7009-

T7452

Hand forgings

40 mm \leq a \leq 150 mm**iTeh STANDARD PREVIEW**

Série aérospatiale

Alliage d'aluminium AL-P7009

T7452

Pièces forgées [SIST EN 2381:2001](#)40 mm \leq a \leq 150 mm

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Luft- und Raumfahrt

Aluminiumlegierung AL-P7009-

T7452

Freiformschmiedestücke

40 mm \leq a \leq 150 mm

This European Standard was accepted by CEN on 1992-03-09. CEN members are bound to comply with the requirements of CEN 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 CEN 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 CEN Central Secretariat has the same status as the official versions.

CEN members are the national standards organizations of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxemburg, 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 Bruxelles

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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.

iTeh STANDARD PREVIEW

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 1993 and conflicting national standards shall be withdrawn at the latest by March 1993.

In accordance with the Common CEN/CENELEC Rules 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 United Kingdom.

0 Introduction

For the use of this standard, see EN 2500-2.

1 Scope

This standard specifies the requirements relating to hand forgings in aluminium alloy AL-P7009-, for use in the T7452¹⁾ condition, 40 mm ≤ a ≤ 150 mm, for aerospace applications.

2 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 2004-1 Aerospace series - Test methods for aluminium and aluminium alloy products - Part 1 - Determination of electrical conductivity of wrought aluminium alloys²⁾
- EN 2082-3 Aerospace series - Aluminium alloy forging stock and forgings - Technical specification - Part 3 - Pre-production and production forgings
- EN 2500-2 Aerospace series - Instructions for the drafting and use of metallic material standards - Part 2 - Specific requirements for aluminium, aluminium alloys and magnesium alloys³⁾.

1) Formerly designated T73652.

| | | | | | | | |
|----|-------------------------|---|--|--|---------------------------------------|--|--|
| 32 | Electrical conductivity | 1 | See EN 2004-1 | | | | |
| 6 | | Measurement on specimen for tensile test (flat machined surface if necessary) | | | | | |
| 7 | | $\gamma \geq 22,0 \text{ MS/m}$ | | Acceptable | | | |
| | | $21,5 \text{ MS/m} \leq \gamma < 22,0 \text{ MS/m}$ | | Not acceptable unless a stress corrosion test gives satisfactory results | | | |
| | | $\gamma < 21,5 \text{ MS/m}$ | | Not acceptable | | | |
| 39 | Stress corrosion | 2 | In case of dispute or if $21,5 \text{ MS/m} \leq \gamma < 22,0 \text{ MS/m}$ | | | | |
| | | 3 | $a \geq 20 \text{ mm}$ | | | | |
| | | 6 | $\sigma = 60\% R_{p0,2} \text{ min. } L / t = 20 \text{ d}$ | | | | |
| 44 | External defects | - | See EN 2082-3 | | | | |
| 51 | Macrostructure | 7 | Grain flow : see EN 2082-3 | | | | |
| 61 | Internal defects | - | See EN 2082-3 | | | | |
| 82 | Batch uniformity | 1 | See EN 2082-3 | | | | |
| | | 7 | Electrical conductivity | See EN 2082-3 | | | |
| | | 7 | Hardness | 145 HB (typical value) $\delta \leq 20 \text{ HB per product}$ | $\Delta \leq 30 \text{ HB per batch}$ | | |
| | | | SIST EN 2381:2001 https://standards.iteh.ai/catalog/standards/sist/32a6c51f-876f-4be7-b2c3-9f0e87f7c6d5/sist-en-2381-2001 | | | | |
| 97 | Designation | | See relevant drawing | | | | |
| 98 | Notes | | | | | | |
| 99 | Typical use | | - | | | | |