

IRISH STANDARD

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AEROSPACE SERIES - METALLIC

MATERIALS - TEST METHODS - PART 2:

TENSILE TESTING AT ELEVATED

TEMPERATURE

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English Version

Aerospace series - Metallic materials - Test methods - Part 2: Tensile testing at elevated temperature

Série aérospatiale - Matériaux métalliques - Méthodes d'essais applicables - Partie 2 : Essais de traction à temperature élevée Luft- und Raumfahrt - Metallische Werkstoffe -Prüfverfahren - Teil 2: Zugversuch bei Hochtemperatur

This European Standard was approved by CEN on 19 September 2005.

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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

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

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EN 2002-002:2005 (E)

Cont	ents	⊃age
Forewo	ord	3
Introdu	uction	4
1	Scope	4
2	Normative references	4
3	Terms, definitions and symbols	4
4	Health and safety	7
5	Principle	7
6	Testing requirements	7
7	Test report	14
Annex	A (normative) Types of test piece to be used for sheet and strip with thickness less than or equal to 8 mm	16
Annex	B (normative) Types of non-machined test piece to be used in the case of bar, section and wire with a diameter or thickness less than or equal to 8 mm	18
Annex	C (normative) Types of machined test piece to be used in the case of bar, section, plate and wire with diameter or thickness greater than 8 mm and for forgings and castings	19
Annex	D (normative) Types of test piece to be used in the case of tubes	22

EN 2002-002:2005 (E)

Foreword

This European Standard (EN 2002-002:2005) 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 May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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EN 2002-002:2005 (E)

Introduction

This standard is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

1 Scope

This standard specifies the requirements for the tensile testing of metallic materials at elevated temperature for aerospace applications.

It shall be applied when referred to in the EN technical specification or material standard unless otherwise specified on the drawing, order or inspection schedule.

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 ISO 7500-1, Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system.

EN ISO 9513, Metallic materials - Calibration of extensometers used in uniaxial testing.

EN 4258, Aerospace series – Metallic materials – General organization of standardization – Links between types of EN standards and their use.

EN 4259, Aerospace series – Metallic materials – Definition of general terms. 1)

EN 60584-2, Thermocouples – Part 2: Tolerances.

ASTM E-1012, Standard practice for verification of specimen alignment under tensile loading. 2)

3 Terms, definitions and symbols

For the purposes of this standard, the terms, definitions and symbols given in EN 4259 and the following given in Table 1 apply.

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

²⁾ This standard is published by: American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, USA.



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