

BS EN 4500-003:2012



BSI Standards Publication

Aerospace series — Metallic materials — Rules for drafting and presentation of material standards

Part 003: Specific rules for heat resisting alloys

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee ACE/61, Metallic materials for aerospace purposes.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Published by BSI Standards Limited 2012

ISBN 978 0 580 78585 6

ICS 49.025.05; 49.025.15

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 October 2012.

Amendments issued since publication

Amd. No.	Date	Text affected
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4500-003

October 2012

ICS 49.025.05; 49.025.15

English Version

Aerospace series - Metallic materials - Rules for drafting and presentation of material standards - Part 003: Specific rules for heat resisting alloys

Série aérospatiale - Matériaux métalliques - Règles pour la rédaction et la présentation des normes de matériaux - Partie 003: Règles spécifiques aux alliages résistant à chaud

Luft- und Raumfahrt - Metallische Werkstoffe - Regeln für das Erstellen und die Gestaltung von Werkstoffnormen - Teil 003: Besondere Regeln für hochwarmfeste Legierungen

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Ref. No. EN 4500-003:2012: E

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Foreword

This document (EN 4500-003:2012) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-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 ASD, 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of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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Introduction

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

1 Scope

This European Standard specifies the specific rules for the drafting and presentation of heat resisting alloy material standards for aerospace applications.

It should be used in conjunction with EN 4500-001.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2032-1, *Aerospace series — Metallic materials — Part 1: Conventional designation*

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

EN 4500-001, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 001: General rules*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 4500-001 apply.

4 Rules for drafting and presentation

4.1 Page 1: Title

4.1.1 General

See EN 4500-001 and Example 1 of this standard.

The following are examples of descriptions which shall be used.

4.1.2 Method of melting

Complete in accordance with EN 4500-001 using one or more of the following terms:

- air melted;
- vacuum melted;
- vacuum refined;
- vacuum arc melted;
- vacuum arc remelted;
- electro-slag remelted;
- consumable electrode remelted;
- inert gas atomised;
- rotating electrode atomised;
- rotating crucible atomised;
- water atomised.

4.1.3 Form entries

- a) sheet, strip, plate;

The term may be qualified with one of the following terms:

- rolled;
- cold rolled;
- hot rolled.

- b) bar;

The term may be qualified with one or more of the following terms:

- hot rolled;
- cold rolled;
- drawn;
- extruded.

c) section;

The term may be qualified with one or more of the following terms:

- extruded;
- hot rolled.

d) tube;

The term may be qualified with one or more of the following terms:

- rolled;
- drawn;
- extruded;
- seamless;
- welded.

e) wire;

The term may be qualified with one or more of the following terms:

- drawn;
- hot rolled.

f) forging stock;

g) forgings;

The term may be qualified with one or more of the following terms:

- die;
- hand.

h) remelting stock;

i) castings;

The term may be qualified with one or more of the following terms:

- sand;
- chill;
- investment;
- centrifugal;
- precision;
- hot isostatically pressed (hipped).