

Aerospace series - Steel 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420\ \text{MPa}$ - Bars - $D_e \leq 40\ \text{mm}$ (corrected version 09.2019)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 2450:2018 sisaldab Euroopa standardi EN 2450:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 2450:2018 consists of the English text of the European standard EN 2450:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 12.12.2018.	Date of Availability of the European standard is 12.12.2018.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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English Version

**Aerospace series - Steel 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420$
MPa - Bars - $D_e \leq 40\ \text{mm}$** Série aérospatiale - Acier 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420$ MPa - Barres - $D_e \leq 40\ \text{mm}$ Luft- und Raumfahrt - Stahl 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420$ MPa - Stangen - $D_e \leq 40\ \text{mm}$

This European Standard was approved by CEN on 27 May 2018.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 25 September 2019.

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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 CEN-CENELEC Management Centre 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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European foreword

This document (EN 2450:2018) 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 June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Introduction

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

This document has been prepared in accordance with EN 4500-005.

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1 Scope

This document specifies the requirements relating to:

$$\begin{array}{c} \text{Steel 31Ni10} \\ 1\,230 \text{ MPa} \leq R_m \leq 1\,420 \text{ MPa} \\ \text{Bars} \\ D_e \leq 40 \text{ mm} \end{array}$$

for aerospace applications.

The ASD STAN designation of this material is FE-PL73.

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 2034, *Aerospace series — Round steel bars drawn and/or descaled — Dimensions — Tolerance h 11*
- EN 2035, *Round steel bars — Drawn — Dimensions — Tolerance h 9 — Aerospace series* ¹⁾
- EN 2036, *Aerospace series — Round steel bars ground — Dimensions — Tolerance h 8*
- EN 2037, *Aerospace series — Hexagonal steel bars drawn — Dimensions — Tolerances h 11 and h 12*
- EN 2038, *Hexagonal steel bars — Drawn — Dimensions — Tolerance h 9 — Aerospace series* ¹⁾
- EN 2039, *Rectangular steel bars — Drawn — Dimensions — Tolerances h 11 / h 12 — Aerospace series* ¹⁾
- EN 2040, *Aerospace series — Rectangular steel bars rolled — Dimensions — Tolerance js 16*
- EN 2041, *Square steel bars — Drawn — Dimensions — Tolerances h 11 / h 12 — Aerospace series* ¹⁾
- EN 2042, *Square steel bars — Rolled — Dimensions — Tolerance js 16 — Aerospace series* ¹⁾
- EN 4258, *Aerospace series — Metallic materials — General organization of standardization — Links between types of EN standards and their use*
- EN 4500-005, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 005: Specific rules for steels*
- EN 4700-002, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 002: Bar and section*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Requirements

See Table 1.

1) Published as ASD-STAN Standard at the date of publication of this European Standard by AeroSpace and Defence industries Association of Europe - Standardization (www.asd-stan.org)