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Aerospace series - Steel 31NiMoCr10-5-3 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420\ \text{MPa}$ - Bars - $D_e \leq 40\ \text{mm}$

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 2450:2025 sisaldab Euroopa standardi EN 2450:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 19.11.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 2450:2025 consists of the English text of the European standard EN 2450:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 19.11.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 49.025.10

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EUROPEAN STANDARD

EN 2450

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2025

ICS 49.025.10

Supersedes EN 2450:2018

English Version

**Aerospace series - Steel 31NiMoCr10-5-3 - 1 230 MPa ≤
Rm ≤ 1 420 MPa - Bars - De ≤ 40 mm**

Série aérospatiale - Acier 31NiMoCr10-5-3 - 1 230 MPa
≤ Rm ≤ 1 420 MPa - Barres - De ≤ 40 mm

Luft- und Raumfahrt - Stahl 31NiMoCr10-5-3 - 1 230
MPa ≤ Rm ≤ 1 420 MPa - Stangen - De ≤ 40 mm

This European Standard was approved by CEN on 5 October 2025.

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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 2450:2025) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2026, and conflicting national standards shall be withdrawn at the latest by May 2026.

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

This document supersedes EN 2450:2018.

EN 2450:2025 includes the following significant technical changes with respect to EN 2450:2018:

- update of Clause 2; and
- addition of a bibliography.

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

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:

Steel 31NiMoCr10-5-3
 $1\,230\text{ MPa} \leq R_m \leq 1\,420\text{ MPa}$
 Bars
 $D_e \leq 40\text{ mm}$

for aerospace applications.

ASD-STAN designation: FE-PL73.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2034, *Aerospace series — Round steel bars drawn and/or descaled — Dimensions — Tolerance h 11*

EN 2035,¹ *Round steel bars — Drawn — Dimensions — Tolerance h 9 — Aerospace series*

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 2038,¹ *Hexagonal steel bars — Drawn — Dimensions — Tolerance h 9 — Aerospace series*

EN 2039,¹ *Rectangular steel bars — Drawn — Dimensions — Tolerances h 11/h 12 — Aerospace series*

EN 2040, *Aerospace series — Rectangular steel bars rolled — Dimensions — Tolerance js 16*

EN 2041,¹ *Square steel bars — Drawn — Dimensions — Tolerances h 11/h 12 — Aerospace series*

EN 2042,¹ *Square steel bars — Rolled — Dimensions — Tolerance js 16 — Aerospace series*

EN 4700-002, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 002: Bars and sections*

¹ Published as ASD-STAN prEN at the date of publication of this document, available at: <https://www.asd-stan.org/>.