

Aerospace series - Steel 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420\ \text{MPa}$ - Forgings - $D_e \leq 40\ \text{mm}$

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 2451:2019 sisaldab Euroopa standardi EN 2451:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 2451:2019 consists of the English text of the European standard EN 2451:2019.
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English Version

**Aerospace series - Steel 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420$
MPa - Forgings - $D_e \leq 40\ \text{mm}$** Série aérospatiale - Acier 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420\ \text{MPa}$ - Pièces forgées ou matricées - $D_e \leq 40\ \text{mm}$ Luft- und Raumfahrt - Stahl 31Ni10 - $1\ 230\ \text{MPa} \leq R_m \leq 1\ 420\ \text{MPa}$ - Gesenk- und Freiformschmiedestücke - $D_e \leq 40\ \text{mm}$

This European Standard was approved by CEN on 4 February 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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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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European foreword

This document (EN 2451:2019) 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of an identical text or by endorsement, at the latest by June 2020, and conflicting national standards shall be withdrawn at the latest by June 2020.

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.

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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:

Steel 31Ni10
 $1\,230\text{ MPa} \leq R_m \leq 1\,420\text{ MPa}$
Forgings
 $D_e \leq 40\text{ mm}$

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 2157-2, *Aerospace series — Steel — Forging stock and forgings — Technical specification — Part 2: Forging stock*

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:

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

4 Requirements

See Table 1.