

STN	Letectvo a kozmonautika Oceľ FE-PM1503 (X3CrNiMoAl 13-8-2) Indukčné tavenie vo vákuu a pretavovanie elektrody Homogenizačne a precipitačne žíhané tyče na obrábanie a alebo $D \leq 150$ mm, $1\,200\text{ MPa} \leq R_m$ $\leq 1\,400\text{ MPa}$	STN EN 3357 31 2865
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Aerospace series - Steel FE-PM1503 (X3CrNiMoAl 13-8-2) - Vacuum induction melted and consumable electrode remelted - Solution treated and precipitation treated - Bar for machining - a or D 150 mm - 1 200 MPa Rm 1 400 MPa

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/19

Obsahuje: EN 3357:2019

EUROPEAN STANDARD

EN 3357

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 49.025.10

English Version

**Aerospace series - Steel FE-PM1503 (X3CrNiMoAl 13-8-2)
- Vacuum induction melted and consumable electrode
remelted - Solution treated and precipitation treated - Bar
for machining - a or $D \leq 150$ mm - $1\,200$ MPa $\leq R_m \leq 1\,400$
MPa**

Série aérospatiale - Acier FE-PM1503 (X3CrNiMoAl 13-8-2) - Élaboré sous vide par induction et refondu à l'électrode consommable - Mis en solution et vieilli - Barres pour usinage - a ou $D \leq 150$ mm - $1\,200$ MPa $\leq R_m \leq 1\,400$ MPa

Luft- und Raumfahrt - Stahl FE-PM1503 (X3CrNiMoAl 13-8-2) - Vakuuminduktionserschmolzen und mit selbstverzehrender Elektrode umgeschmolzen - Lösungsgeglüht und ausgehärtet - Stangen zur spanenden Bearbeitung - a oder $D \leq 150$ mm - $1\,200$ MPa $\leq R_m \leq 1\,400$ MPa

This European Standard was approved by CEN on 8 July 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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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EN 3357:2019 (E)

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European foreword

This document (EN 3357:2019) 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 December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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.

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

EN 3357:2019 (E)**Introduction**

This document is part of the series of 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.

1 Scope

This document specifies the requirements relating to:

Steel FE-PM1503 (X3CrNiMoAl 13-8-2)
Vacuum induction melted and consumable electrode remelted
Solution treated and precipitation treated
Bar for machining
 a or $D \leq 150$ mm
 $1\,200\text{ MPa} \leq R_m \leq 1\,400\text{ MPa}$

for aerospace applications.

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 2003-7, *Aerospace series — Steel — Test methods — Part 7: Macrographic test* ¹⁾

EN 2043, *Aerospace series — Metallic materials — General requirements for semi-finished product qualification (excluding forgings and castings)*

EN 4050-1, *Aerospace series — Test method for metallic materials — Ultrasonic inspection of bars, plates, forging stock and forgings — Part 1: General requirements*

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

EN 4436, *Aerospace series — Steel — Test methods — Determination of 'delta' ferrite content* ¹⁾

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*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹⁾ Published as ASD-STAN Prestandard at the date of publication of this standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN), <http://www.asd-stan.org/>