



BSI Standards Publication

**Aerospace series — Steel X4CrNiMo16-5-1
(1.4418) — Air melted — Hardened and tempered —
Bars — $D_e \leq 200 \text{ mm}$ — $900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$**

National foreword

This British Standard is the UK implementation of EN 4631:2024. It supersedes BS EN 4631:2013, which is withdrawn.

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 committee manager.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

**Aerospace series - Steel X4CrNiMo16-5-1 (1.4418) - Air
melted - Hardened and tempered - Bars - $D \leq 200$ mm -
 $900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$**

Série aérospatiale - Acier X4CrNiMo16-5-1 (1.4418) -
Élaboré à l'air - Trempé et revenu - Barres - $D \leq 200$
mm - $900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$

Luft- und Raumfahrt - Stahl X4CrNiMo16-5-1 (1.4418)
- Lufterschmolzen - Gehärtet- und angelassen - Stangen
- $D \leq 200$ mm - $900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$

This European Standard was approved by CEN on 26 May 2024.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 4631:2024) 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of an identical text or by endorsement, at the latest by February 2025, and conflicting national standards shall be withdrawn at the latest by February 2025.

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This document supersedes EN 4631:2013.

The main changes with respect to the previous edition are as follows:

- EN 4631 (P2), 02/2013 — General editorial improvements;
- Clause 2: EN 2950 removed from normative references;
- Table 1, line 11: correction of Direction of test piece (T instead of LT);
- Table 1, line 17: correction of values for Hardness (addition of optional HV criteria);
- Table 1, line 44: addition of the possibility to do an eddy current testing.

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