



BSI Standards Publication

AEROSPACE SERIES

**Specification for bar and section
for machining of titanium-
aluminium-vanadium alloy
(Tensile strength 900–1 160 MPa)
(Limiting ruling section 150 mm)**

Publishing and copyright information

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Contents

Foreword *iii*

1 Scope 1

2 Normative references 1

3 Technical requirements 1

Bibliography 4

List of tables

Table 1 – Technical requirements for titanium-aluminium-vanadium bar and section 2

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 4, an inside back cover and a back cover.

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 November 2009. It was prepared by Panel ACE/61/-/49, *Titanium and its alloys*, under the authority of Technical Committee ACE/61, *Metallic materials for aerospace purposes*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

BS 3TA 11:2009+A1:2017 supersedes BS 3TA 11:2009, which is withdrawn.

BS EN 3311:2009 and BS EN 3355:2012, as applicable, partially supersedes BS 3TA 11:2009+A1:2017 for the following forms:

Round bar, limiting ruling section <110 mm.

Extruded section, limiting ruling section 150 mm.

Information about this document

This is a full revision of BS TA 11, and introduces the following principal changes.

- Requirements are stated in tabular format in accordance with EN 4500-1 and EN 4500-4.
- Chemical composition has been amended to add requirements for "other" elements.
- Melting method details have been deleted and replaced by reference to Section 1 of BS TA 100.

The start and finish of text introduced or altered by Amendment No.1 is indicated in the text by tags $\langle A1 \rangle$ and $\langle A1 \rangle$. Minor editorial changes are not tagged.

Hazard warnings

WARNING. This British Standard calls for the use of substances and/or procedures that can be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

Use of this document

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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1 Scope

This British Standard specifies requirements for titanium-aluminium-vanadium alloy bar and section with a tensile strength of 900 MPa to 1 160 MPa.

2 Normative references

The following referenced documents are indispensable for the application 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.

BS TA 100, *Procedure for inspection, testing and acceptance of wrought titanium and titanium alloys*

3 Technical requirements

Material to this standard shall conform to Table 1.

NOTE The format and symbols used in Table 1 are derived from EN 4500-1 and EN 4500-4.