

**Aerospace series - Test method -
Microstructure of (α + β) titanium alloy
wrought products - Part 001: General
requirements**

Aerospace series - Test method - Microstructure of
(α + β) titanium alloy wrought products - Part 001:
General requirements

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 3114-001:2007 sisaldab Euroopa standardi EN 3114-001:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.01.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 3114-001:2007 consists of the English text of the European standard EN 3114-001:2006.</p> <p>This document is endorsed on 29.01.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This standard specifies the conditions for micrographic examination of ($\alpha + \beta$) titanium alloy wrought products and description of terms used.</p>	<p>Scope:</p> <p>This standard specifies the conditions for micrographic examination of ($\alpha + \beta$) titanium alloy wrought products and description of terms used.</p>
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ICS 49.025.10

Võtmesõnad:

ICS 49.025.10

English Version

**Aerospace series - Test method - Microstructure of ($\alpha + \beta$)
titanium alloy wrought products - Part 001: General
requirements**

Série aérospatiale - Méthode d'essai - Microstructure des
produits corroyés en alliage de titane ($\alpha + \beta$) - Partie 001 :
Exigences générales

Luft- und Raumfahrt - Prüfverfahren - Mikrogefüge
Knetzeugnisse von Titanlegierung ($\alpha + \beta$) - Teil 001:
Allgemeine Anforderungen

This European Standard was approved by CEN on 18 October 2006.

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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 Central Secretariat has the same status as the official versions.

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Foreword

This document (EN 3114-001:2006) 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 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

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

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Introduction

This standard is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

1 Scope

This standard specifies the conditions for micrographic examination of ($\alpha + \beta$) titanium alloy wrought products and description of terms used.

Specific microstructures applicable to each type of product are defined in EN 3114-002 to EN 3114-004.

This standard shall be applied in conjunction with EN material standards, which define the acceptance criteria unless otherwise specified on the order.

It is applicable to:

- bars, sections, forging stock and forgings (EN 3114-002);
- plate (EN 3114-003);
- sheet for superplastic forming (EN 3114-004).

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.

EN 3114-002, *Aerospace series — Microstructure of ($\alpha + \beta$) titanium alloy wrought products — Part 002: Microstructure of bars, sections, forging stock and forgings.*

EN 3114-003, *Aerospace series — Microstructure of ($\alpha + \beta$) titanium alloy wrought products — Part 003: Microstructure of plate.*

EN 3114-004, *Aerospace series — Microstructure of ($\alpha + \beta$) titanium alloy wrought products — Part 004: Microstructure of sheet for superplastic forming.*

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

3 Sampling

The sampling and its frequency shall be as defined in the relevant technical specification and/or order.

The sampling sections shall be at least 10 mm, in thickness or length.

Samples shall preferably be taken by sawing. Cold work hardened zones shall be avoided or removed. If the sampling material is taken by abrasive cut off or flame cutting, the resulting heat affected zone shall be completely removed in the course of sample preparation.