Geometrical Product Specifications (GPS) - Surface texture: Profile method; Measurement standards - Part 2: Software measurement standards

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EESTI STANDARDI EESSÕNA

Käesolev Eesti standard EVS-EN ISO 5436-2:2002 sisaldab Euroopa standardi EN ISO 5436-2:2001 ingliskeelset teksti. Käesolev dokument on jõustatud 14.03.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 5436-2:2002 consists of the English text of the European standard EN ISO 5436-2:2001. This document is endorsed on 14.03.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

NATIONAL FOREWORD

Käsitlusala: This part of EN ISO 5436 defines Type F1 and Type F2 software measurement standards (etalons) for verifying the software of measuring instruments. It also defines the file format of Type F1 software measurement standards for the calibration of instruments for the measurement of surface texture by the profile method as defined in ISO 3274.	**Scope:** This part of EN ISO 5436 defines Type F1 and Type F2 software measurement standards (etalons) for verifying the software of measuring instruments. It also defines the file format of Type F1 software measurement standards for the calibration of instruments for the measurement of surface texture by the profile method as defined in ISO 3274.

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Võtmesõnad: computer programs, computer so, contact stylus instruments, control samples, definition, definitions, dimensions, finishes, gauges, geometrical product specification, marking, measuring instruments, meters, profile, roughness, roughness (surface), specifications

EUROPEAN STANDARD
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EN ISO 5436-2

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English version

Geometrical product specifications (GPS) – Surface texture: Profile method
Measurements standards
Part 2: Software measurement standards
(ISO 5436-2 : 2001)

Spécification géométrique des produits (GPS) – Etat de surface: Méthode du profil – Etalons – Partie 2: Etalons logiciels (ISO 5436-2 : 2001)

Geometrische Produktspezifikation (GPS) – Oberflächenbeschaffenheit: Tastschnittverfahren – Normale – Teil 2: Software-Normale (ISO 5436-2 : 2001)

This European Standard was approved by CEN on 2001-12-15.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

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Foreword

International Standard

ISO 5436-2 : 2001 Geometrical product specifications (GPS) – Surface texture: Profile method – Measurement standards – Part 2: Software measurement standards,

which was prepared by ISO/TC 213 'Dimensional and geometrical product specifications and verification' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 290 'Dimensional and geometrical product specifications and verification', the Secretariat of which is held by AFNOR, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 2002 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 5436-2 : 2001 was approved by CEN as a European Standard without any modification.

Contents

Introduction

This part of ISO 5436 is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences link 6 of the chain of standards on roughness, waviness and primary profile.

For more detailed information on the relationship of this part of ISO 5436 to other standards and the GPS matrix model, see annex B.

This part of ISO 5436, together with ISO 5436-1, introduces two new measurement standards: Type E, for calibrating the profile co-ordinate system, and Type F, for calibrating software. This part of ISO 5436 is concerned with software measurement standards.

1 Scope

This part of ISO 5436 defines Type F1 and Type F2 software measurement standards (etalons) for verifying the software of measuring instruments. It also defines the file format of Type F1 software measurement standards for the calibration of instruments for the measurement of surface texture by the profile method as defined in ISO 3274.

NOTE 1 Throughout this part of ISO 5436, the term "softgauge" is used as a substitute for "software measurement standard Type F1".

NOTE 2 Formerly, "measurement standards" were referred to as "calibration specimens".

NOTE 3 ISO 3274 only refers to instruments with independent reference datums.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 5436. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 5436 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3274:1996, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Nominal characteristics of contact (stylus) instruments*

ISO 5436-1:2000, *Geometrical Product Specifications (GPS) — Surface texture: Profile method; Measurement standards — Part 1: Material measures*

ISO 11562:1996, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Metrological characteristics of phase correct filters*

ISO 12085:1996, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Motif parameters*

ISO/TS 17450-2:—[1)], *Geometrical Product Specifications (GPS) — General concepts — Part 2: Basic tenets, specifications, operators and uncertainties*

Guide to the expression of uncertainty in measurement (GUM). BIPM, IEC, IFCC, ISO, IUPAC, IUPAP, OIML, 1st edition, 1995.

1) To be published.