



SLOVENSKI STANDARD SIST EN ISO 17296-2:2016

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Aditivna proizvodnja - Osnovna načela - 2. del: Pregled procesnih kategorij in vhodnih surovin (ISO 17296-2:2015)

Additive manufacturing - General principles - Part 2: Overview of process categories and feedstock (ISO 17296-2:2015)

Additive Fertigung - Grundlagen - Teil 2: Überblick über Prozesskategorien und Rohmaterialien (ISO 17296-2:2015)

Fabrication additive - Principes généraux - Partie 2: Vue d'ensemble des catégories de procédés et des matières premières (ISO 17296-2:2015)

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25.030 3D-tiskanje Additive manufacturing

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EUROPEAN STANDARD

EN ISO 17296-2

NORME EUROPÉENNE

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September 2016

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English Version

Additive manufacturing - General principles - Part 2: Overview of process categories and feedstock (ISO 17296- 2:2015)

Fabrication additive - Principes généraux - Partie 2:
Vue d'ensemble des catégories de procédés et des
matières premières (ISO 17296-2:2015)

Additive Fertigung - Grundlagen - Teil 2: Überblick
über Prozesskategorien und Rohmaterialien (ISO
17296-2:2015)

This European Standard was approved by CEN on 29 August 2016.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

The text of ISO 17296-2:2015 has been prepared by Technical Committee ISO/TC 261 “Additive manufacturing” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 17296-2:2016 by Technical Committee CEN/TC 438 “Additive Manufacturing” the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.

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.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 17296-2:2015 has been approved by CEN as EN ISO 17296-2:2016 without any modification.

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INTERNATIONAL
STANDARD

ISO
17296-2

First edition
2015-01-15

**Additive manufacturing — General
principles —**

**Part 2:
Overview of process categories and
feedstock**

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Fabrication additive — Principes généraux —

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*Partie 2: Vue d'ensemble des catégories de procédés et des matières
premières*

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ISO 17296-2:2015(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 261, *Additive manufacturing*.

ISO 17296 consists of the following parts, under the general title *Additive manufacturing — General principles*:

- *Part 1: Terminology*¹⁾
- *Part 2: Overview of process categories, part types and feedstock*
- *Part 3: Main characteristics and corresponding test methods*
- *Part 4: Overview of data processing*

1) To be published.

Introduction

Additive manufacturing is a versatile technology that can be used throughout the product development process. The additive manufacturing processes can be used to manufacture prototypes, tool and fully functional end-use parts. In addition to engineering, the application areas of this interdisciplinary technology now include fields ranging from e.g. architecture and medicine, to archaeology and cartography, as well as arts, toys, education, entertainment.

During its somewhat turbulent development, different terms and definitions have emerged which are frequently ambiguous and confusing. Moreover, there are various different processes available on the market and it is not always clear what opportunities and limitations they offer in terms of application.

This part of ISO 17296 aims to offer a description of the general working principles for the different process categories and the processing of feedstock material into the desired product geometry. This will enhance the understanding of the process and improve the communication between the customer and suppliers of products and services.

The principles and process categories described in this part of ISO 17296 refer to commercially available technology that has proven practically useful and viable on the market for several years.

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