

STN	Aditívna výroba. Všeobecné princípy. Časť 2: Prehľad kategórií procesu a východiskový produkt (ISO 17296-2: 2015).	STN EN ISO 17296-2 18 0410
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Additive manufacturing - General principles - Part 2: Overview of process categories and feedstock (ISO 17296-2:2015)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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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)

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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.

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Endorsement notice

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

**Additive manufacturing — General
principles —**

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

Fabrication additive — Principes généraux —

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





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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).

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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.

Additive manufacturing — General principles —

Part 2:

Overview of process categories and feedstock

1 Scope

This part of ISO 17296 describes the process fundamentals of Additive Manufacturing (AM). It also gives an overview of existing process categories, which are not and cannot be exhaustive due to the development of new technologies. This part of ISO 17296 explains how different process categories make use of different types of materials to shape a product's geometry. It also describes which type of material is used in different process categories. Specification of feedstock material and requirements for the parts produced by combinations of different processes and feedstock material will be given in subsequent separate standards and are therefore not covered by this part of ISO 17296. This part of ISO 17296 describes the overarching principles of these subsequent standards.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 17296-1, *Additive manufacturing — General principles — Part 1: Terminology*²⁾

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

2) To be published.