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STN	**Aditívna výroba polymérov Surovinové materiály Kvalifikácia materiálov pre laserové tavenie častí na práškovom lôžku (ISO/ASTM 52925: 2022)**	**STN EN ISO/ASTM 52925** 18 0058

Additive manufacturing of polymers - Feedstock materials - Qualification of materials for laser-based powder bed fusion of parts (ISO/ASTM 52925:2022)

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/22

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO/ASTM 52925

May 2022

ICS 25.030

English Version

Additive manufacturing of polymers - Feedstock materials - Qualification of materials for laser-based powder bed fusion of parts (ISO/ASTM 52925:2022)

Fabrication additive de polymères - Matières premières - Qualification des matériaux pour la fusion laser de pièces sur lit de poudre (ISO/ASTM 52925:2022)

Additive Fertigung von Polymeren Qualifizierungsgrundsätze - Klassifizierung von Teileigenschaften (ISO/ASTM 52925:2022)

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Ref. No. EN ISO/ASTM 52925:2022 E

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European foreword

This document (EN ISO/ASTM 52925:2022) has been prepared by Technical Committee ISO/TC 261 "Additive manufacturing" in collaboration with 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of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

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The text of ISO/ASTM 52925:2022 has been approved by CEN as EN ISO/ASTM 52925:2022 without any modification.

INTERNATIONAL STANDARD

ISO/ASTM 52925

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Additive manufacturing of polymers — Feedstock materials — Qualification of materials for laser-based powder bed fusion of parts

Fabrication additive de polymères — Matières premières — Qualification des matériaux pour la fusion laser de pièces sur lit de poudre

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Foreword

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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 of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 261, *Additive manufacturing*, in cooperation with ASTM Committee F42, *Additive Manufacturing Technologies*, on the basis of a partnership agreement between ISO and ASTM International with the aim to create a common set of ISO/ASTM standards on additive manufacturing, and in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 438, *Additive manufacturing,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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INTERNATIONAL STANDARD **ISO/ASTM 52925:2022(E)**

Additive manufacturing of polymers — Feedstock materials — Qualification of materials for laser-based powder bed fusion of parts

1 Scope

This document provides guidance and recommendations for the qualification of polymeric materials intended for laser-based powder bed fusion of polymers (PBF-LB/P). The parameters and recommendations presented in this document relate mainly to the material polyamide 12 (PA12), but references are also made to polyamide 11 (PA11). The parameters and recommendations set forth herein cannot be applicable to other polymeric materials.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO/ASTM 52900, *Additive manufacturing — General principles — Fundamentals and vocabulary*