SLOVENSKI STANDARD
SIST EN ISO/ASTM 52933:2024

01-september-2024

Dodajalna izdelava - Okolje, zdravje in varnost - Preskusna metoda za oceno emisije nevarnih snovi iz 3D tiskalnikov za iztiskavanje materiala v neindustrijskih prostorih (ISO/ASTM 52933:2024)

Additive manufacturing - Environment, health and safety - Test method for the hazardous substances emitted from material extrusion type 3D printers in the non-industrial places (ISO/ASTM 52933:2024)

Additive Fertigung - Umwelt, Gesundheit und Sicherheit - Prüfverfahren für die gefährlichen Stoffe, die von 3D-Druckern mit Materialextrusion in nicht-industriellen Bereichen emittiert werden (ISO/ASTM 52933:2024)

Fabrication additive - Environnement, santé et sécurité - Méthode d'essai pour les substances dangereuses émises par les imprimantes 3D de type à extrusion de matière dans les lieux non industriels (ISO/ASTM 52933:2024)

Ta slovenski standard je istoveten z: **EN ISO/ASTM 52933:2024**

ICS:

13.040.30	Kakovost zraka na delovnem mestu	Workplace atmospheres
13.100	Varnost pri delu. Industrijska higiena	Occupational safety. Industrial hygiene
25.030	3D-tiskanje	Additive manufacturing

SIST EN ISO/ASTM 52933:2024 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO/ASTM 52933

March 2024

ICS 13.040.30; 13.100; 25.030

English Version

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This European Standard was approved by CEN on 20 March 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN ISO/ASTM 52933:2024 E

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European foreword

This document (EN ISO/ASTM 52933:2024) 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of an identical text or by endorsement, at the latest by September 2024, and conflicting national standards shall be withdrawn at the latest by September 2024.

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Endorsement notice

The text of ISO/ASTM 52933:2024 has been approved by CEN as EN ISO/ASTM 52933:2024 without any modification.

International Standard

ISO/ASTM 52933

First edition
2024-03

Additive manufacturing — Environment, health and safety — Test method for the hazardous substances emitted from material extrusion type 3D printers in the non-industrial places

Fabrication additive — Environnement, santé et sécurité — Méthode d'essai pour les substances dangereuses émises par les imprimantes 3D de type à extrusion de matière dans les lieux non industriels

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Foreword

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The committee responsible for this document is 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, 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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Introduction

This document refers to the assessment of hazardous substances emitted during operation of material extrusion type AM machines, commonly known as “3D printers” installed in schools or public places for educational and hands-on purposes, and basic countermeasures for reducing the substances.

This document provides the necessary information and test procedures to reflect the characteristics of the AM process based on the previous international standards related to indoor air quality and to assess hazardous substances in the non-industrial places.

Operator, supervisor, and manager who are working at the non-industrial places will be able to use this document to measure and diagnose air quality. This document also includes appendices to help them try to reduce the hazardous substances emitted into the non-industrial spaces.