



BSI Standards Publication

**Additive manufacturing of metals —
Feedstock materials — Correlating of
rotating drum measurement with powder
spreadability in PBF-LB machines**

National foreword

This Published Document is the UK implementation of CEN ISO/ASTM TR 52952:2023. It is identical to ISO/ASTM TR 52952:2023.

The UK participation in its preparation was entrusted to Technical Committee AMT/8, Additive manufacturing.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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- a felt lack of detail in the characterization of layer uniformity, whereby the particle size is not taken into account, and thus the methodology cannot be applied for comparison between feedstocks, nor for quantifying the quality of the layer formed;
- because the definition of layer homogeneity as proposed is used for evaluating whether recoating speed may affect spreadability or not, rather than for evaluating whether a powder feedstock will be recoated appropriately in the application at any speed, limiting the applicability and usefulness of the method; and
- for the results shown, correlations are drawn for only two of the five powders tested, with only three points per sample, and with significant error bars.

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Amendments/corrigenda issued since publication

Date

Text affected

English Version

**Additive Manufacturing of metals - Feedstock materials -
Correlating of rotating drum measurement with powder
spreadability in PBF-LB machines (ISO/ASTM TR
52952:2023)**

Fabrication additive de métaux - Matières premières -
Corrélation de la mesure du tambour rotatif avec la
capacité d'étalement de la poudre dans les machines
PBF-LB (ISO/ASTM TR 52952:2023)

Additive Fertigung von Metallen - Ausgangsmaterialien
- Korrelation zwischen der Messung der rotierenden
Trommel und der Pulververteilbarkeit in PBF-LB-
Maschinen (ISO/ASTM TR 52952:2023)

This Technical Report was approved by CEN on 13 June 2023. It has been drawn up by the Technical Committee CEN/TC 438.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (CEN ISO/ASTM TR 52952:2023) 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.

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Endorsement notice

The text of ISO/ASTM TR 52952:2023 has been approved by CEN as CEN ISO/ASTM TR 52952:2023 without any modification.

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Foreword

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This document was prepared by Technical Committee 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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