PD CEN ISO/ASTM TR 52952:2023

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.

BSI, as a member of CEN, is obliged to publish CEN ISO/ASTM TR 52952:2023 as a Published Document. However, attention is drawn to the fact that during the development of this Technical Report, the UK committee voted against its approval due to the following reasons:

- 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.

Contractual and legal considerations

Published by BSI Standards Limited 2023

ISBN 978 0 539 27694 7

ICS 25.030