International

ISO/ASTM 52938-1

Additive manufacturing of metals — Environment, health and safety —

Part 1: Safety requirements for PBF-LB machines

Fabrication additive de métaux — Environnement, hygiène et sécurité —

Partie 1: Exigences de sécurité pour les machines PBF-LB

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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, 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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The ISO/ASTM 52938 series provides technical safety requirements for the design and manufacturing of additive manufacturing (AM) machinery for use in the industry. It concerns designers, manufacturers, suppliers and importers of the machines specified in the Scope. It also includes a list of informative items that the manufacturer will need to give to the user.

Environment, health and safety requirements for use of AM machines using metallic feedstocks are addressed in ISO/ASTM 52931:2023.

This document is a type-C standard as stated in ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.