AS ISO/ASTM 52926.3:2024
ISO/ASTM 52926-3:2023

Australian STANDARD®

STANDARDS Australia

Additive manufacturing of metals — Qualification principles

Part 3: Qualification of operators for PBF-EB

Documents
Document Sharing Hub

Full document details: AS ISO ASTM 52926.3-2024

AS ISO/ASTM 52926.3:2024

This Australian Standard® was prepared by MB-028, Additive Manufacturing. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 12 April 2024.

This Standard was published on 26 April 2024.

The following are represented on Committee MB-028:

Australian Automotive Aftermarket Association
Australian Ceramic Society
Australian Manufacturing Technology Institute
Austroads
Charles Darwin University
CNC Design
Engineers Australia
Materials Australia
Metro North Health Hospital and Health Service, Qld
NSW Government
RMIT University
University of Technology Sydney
University of Wollongong
Weld Australia

This Standard was issued in draft form for comment as DR AS ISO/ASTM 52926.3:2024.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting: www.standards.org.au

ISBN 978 1 76139 597 0

Documents
Document Sharing Hub

Full document details: AS ISO ASTM 52926.3-2024

AS ISO/ASTM 52926.3:2024
ISO/ASTM 52926-3:2023

Additive manufacturing of metals — Qualification principles

Part 3: Qualification of operators for PBF-EB

First published as AS ISO/ASTM 52926.3:2024.

COPYRIGHT

© ISO 2024 — All rights reserved
© Standards Australia Limited 2024

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

Documents
Document Sharing Hub

Full document details: AS ISO ASTM 52926.3-2024

Preface

This Standard was prepared by the Standards Australia Committee MB-028, Additive Manufacturing.

The objective of this document is to identify the capabilities and responsibilities required for the qualification of the AM operators on the field of the additive manufacturing technologies dealing with metallic parts production, specifically for the employment of powder bed fusion – electron beam for metals (PBF-EB/M).

This document identifies criteria for the theoretical and practical assessment of personnel operating PBF-EB/M machines. The activities and procedures foreseen to be performed by the PBF-EB operator are also part of this document.

This document is intended to provide guidance for qualification of machine operators in general industrial applications.

This document is identical with, and has been reproduced from, ISO/ASTM 52926-3:2023, *Additive manufacturing of metals — Qualification principles — Part 3: Qualification of operators for PBF-EB*.

As this document has been reproduced from an international document, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Documents
Document Sharing Hub

© Standards Australia Limited 2024

Full document details: AS ISO ASTM 52926.3-2024

Contents

Preface ii
Foreword iv
Introduction v
1 Scope 1
2 Normative references 1
3 Terms and definitions 1
4 Operator qualification 1
4.1 General 1
4.2 Assessment procedures 2
4.2.1 General 2
4.2.2 Aspects related to PBF-EB/M 2
4.2.3 Feedstock activities 2
4.2.4 System set-up activities 3
4.2.5 Manufacturing/Build activities 3
4.2.6 Post-processing activities 3
4.2.7 Quality related activities 4
Bibliography 5

Documents
Document Sharing Hub
Full document details: AS ISO ASTM 52926.3-2024