



**SLOVENSKI STANDARD**  
**SIST-TP CEN ISO/ASTM/TR 52917:2023**

**01-marec-2023**

---

**Dodajalna izdelava - Krožno preskušanje - Splošne smernice (ISO/ASTM TR 52917:2022)**

Additive manufacturing - Round robin testing - General guidelines (ISO/ASTM TR 52917:2022)

Additive Fertigung - Ringversuche - Allgemeine Leitlinien (ISO/ASTM TR 52917:2022)

Fabrication additive - Essais interlaboratoires - Lignes directrices générales (ISO/ASTM TR 52917:2022)

**Ta slovenski standard je istoveten z: CEN ISO/ASTM/TR 52917:2022**

**ICS:**

25.030

3D-tiskanje

Additive manufacturing

**SIST-TP CEN ISO/ASTM/TR 52917:2023 en,fr,de**



TECHNICAL REPORT  
RAPPORT TECHNIQUE  
TECHNISCHER REPORT

**CEN ISO/ASTM/TR  
52917**

October 2022

---

ICS 25.030

English Version

## Additive manufacturing - Round robin testing - General guidelines (ISO/ASTM TR 52917:2022)

Fabrication additive - Essais interlaboratoires - Lignes directrices générales (ISO/ASTM TR 52917:2022)

Additive Fertigung - Ringversuche - Leitfaden zur Durchführung von Ringversuchen (ISO/ASTM TR 52917:2022)

This Technical Report was approved by CEN on 16 September 2022. It has been drawn up by the Technical Committee CEN/TC 438.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

iteh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[SIST-TP CEN ISO/ASTM/TR 52917:2023](https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023)

<https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023>



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

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

---

**CEN ISO/ASTM/TR 52917:2022 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

**iTeh Standards**  
**(<https://standards.itih.ai>)**  
**Document Preview**

[SIST-TP CEN ISO/ASTM/TR 52917:2023](https://standards.itih.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023)

<https://standards.itih.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023>

## European foreword

This document (CEN ISO/ASTM/TR 52917:2022) 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

## Endorsement notice

The text of ISO/ASTM TR 52917:2022 has been approved by CEN as CEN ISO/ASTM/TR 52917:2022 without any modification.

**iTeh Standards**  
**(<https://standards.iteh.ai>)**  
**Document Preview**

[SIST-TP CEN ISO/ASTM/TR 52917:2023](https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023)

<https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023>



TECHNICAL  
REPORT

ISO/ASTM TR  
52917

First edition  
2022-08

---

---

**Additive manufacturing — Round  
robin testing — General guidelines**

*Fabrication additive — Essais interlaboratoires — Lignes directrices  
générales*

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[SIST-TP CEN ISO/ASTM/TR 52917:2023](https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023)

<https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023>



Reference number  
ISO/ASTM TR 52917:2022(E)

© ISO/ASTM International 2022

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[SIST-TP CEN ISO/ASTM/TR 52917:2023](https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023)

<https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO/ASTM International 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester. In the United States, such requests should be sent to ASTM International.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11

Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

ASTM International  
100 Barr Harbor Drive, PO Box C700  
West Conshohocken, PA 19428-2959, USA  
Phone: +610 832 9634  
Fax: +610 832 9635  
Email: [khooper@astm.org](mailto:khooper@astm.org)  
Website: [www.astm.org](http://www.astm.org)



# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 RRS task force and RRS manager</b> .....	<b>1</b>
<b>5 Develop a round robin study</b> .....	<b>2</b>
5.1 Suggested steps to develop a round robin study.....	2
5.2 Identify the goal of the study and select the round robin task force.....	2
5.3 Prepare scope of round robin study.....	2
5.4 Develop a manufacturing plan.....	3
5.5 Process control document.....	5
<b>6 Develop a measurement and testing plan</b> .....	<b>5</b>
<b>7 Solicit participants</b> .....	<b>5</b>
<b>8 Send the manufacturing plan to participants</b> .....	<b>5</b>
<b>9 Execute a pilot run with select participants</b> .....	<b>6</b>
<b>10 Execute a full scale production run</b> .....	<b>6</b>
<b>11 Data handling</b> .....	<b>7</b>
<b>12 Prepare study report</b> .....	<b>7</b>
<b>13 Record keeping</b> .....	<b>7</b>
<b>Bibliography</b> .....	<b>8</b>

[SIST-TP CEN ISO/ASTM/TR 52917:2023](https://standards.iteh.ai/)

<https://standards.iteh.ai/catalog/standards/sist/9617bea5-7492-4084-bf63-a8d4e697213c/sist-tp-cen-iso-astm-tr-52917-2023>

## ISO/ASTM TR 52917:2022(E)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by 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).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).