

SLOVENSKI STANDARD oSIST prEN ISO 148-2:2025

01-december-2025

Kovinski materiali - Udarni preskus po Charpyju - 2. del: Preverjanje preskusnih naprav (ISO/DIS 148-2:2025)

Metallic materials - Charpy pendulum impact test - Part 2: Verification of testing machines (ISO/DIS 148-2:2025)

Metallische Werkstoffe - Kerbschlagbiegeversuch nach Charpy - Teil 2: Überprüfung der Prüfmaschinen (Pendelschlagwerke) (ISO/DIS 148-2:2025)

Matériaux métalliques - Essai de flexion par choc sur éprouvette Charpy - Partie 2: Vérification des machines d'essai (mouton-pendule) (ISO/DIS 148-2:2025)

Ta slovenski standard je istoveten z: prEN ISO 148-2

ICS:

77.040.10 Mehansko preskušanje kovin Mechanical testing of metals

oSIST prEN ISO 148-2:2025 en,fr,de

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

<u>oSIST prEN ISO 148-2:2025</u>

https://standards.iteh.ai/catalog/standards/sist/c34hd10c-e95a-4f1e-ac9e-8295a35d55db/osist-pren-iso-148-2-2025



DRAFT International Standard

ISO/DIS 148-2

Metallic materials — Charpy pendulum impact test —

Part 2:

Verification of testing machines and ar

Matériaux métalliques — Essai de flexion par choc sur éprouvette Charpy —

Partie 2: Vérification des machines d'essai (mouton-pendule)

ICS: 77.040.10

ISO/TC **164**/SC **4**

Secretariat: ANSI

Voting begins on: 2025-10-28

Voting terminates on: 2026-01-20

https://standards.iteh.ai/catalog/standards/sist/c34bd10c-e95a-4f1e-ac9e-8295a35d55db/osist-pren-iso-148-2-2025

This document has not been edited by the ISO Central Secretariat.

ISO/CEN PARALLEL PROCESSING

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENTS AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

ISO/DIS 148-2:2025(en)

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

<u>oSIST prEN ISO 148-2:2025</u>

https://standards.iteh.ai/catalog/standards/sist/c34bd10c-e95a-4f1e-ac9e-8295a35d55db/osist-pren-iso-148-2-2025



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

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.

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

Published in Switzerland

ISO/DIS 148-2:2025(en)

Co	ntents	Page
Fore	Foreword	
Intr	oduction	v
1	Scope	1
2	Normative references	
3	Terms and definitions 3.1 Definitions pertaining to the machine 3.2 Definitions pertaining to energy 3.3 Definitions pertaining to test pieces	2
4	Symbols and abbreviated terms	4
5	Testing machine	6
7	Full direct verification 6.1 General 6.2 Foundation/installation 6.3 Machine framework 6.4 Machine 6.5 Anvils and supports 6.6 Indicating equipment Indirect verification by use of certified reference test pieces 7.1 Certified reference test pieces used	678111213
	 7.2 Absorbed energy levels 7.3 Requirements for certified reference test pieces 7.4 Limited direct verification 7.5 Bias and repeatability 7.5.1 Repeatability 	13 13 13 14
	7.5.2 Bias Locument Preview	
8	Frequency of verification	
9 cps://st	Verification reportoSIST prEN ISO 148-2:2025tan 9.1 ds. i General talog/standards/sist/c34bd10c-e95a-4f1e-ac9e-8295a35d55db/osist-pren-iso-149.2Direct verification9.3Indirect verification	8-21502
10	Uncertainty	15
Ann	ex A (informative) Measurement uncertainty of the result of the indirect verification of a Charpy pendulum impact machine	21
Ann	ex B (informative) Measurement uncertainty of the results of the full direct verification of a Charpy pendulum impact testing machine	25
Ann	ex C (informative) Direct method of verifying the geometric properties of pendulum impact testing machines using a jig	31
Bibl	iography	36

ISO/DIS 148-2:2025(en)

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).

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).

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

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 4, *Fatigue*, *fracture and toughness testing*.

This fourth edition cancels and replaces the third edition (ISO 148-2:2016), which has been technically revised.

ISO 148 consists of the following parts, under the general title *Metallic materials* — *Charpy pendulum impact test*:

- Part 1: Test method
- https://spart 2: Verification of testing machines 34bd10c-e95a-4f1e-ac9e-8295a35d55db/osist-pren-iso-148-2-2025
 - Part 3: Preparation and characterization of Charpy V-notch certified reference test pieces for indirect verification of pendulum impact machines
 - *Part 4: Testing of miniature Charpy test pieces* (in preparation).