

SLOVENSKI STANDARD oSIST prEN ISO 14577-3:2024

01-september-2024

Nadomešča:

SIST EN ISO 14577-3:2015

Kovinski materiali - Instrumentirano vtiskanje pri preskušanju trdote in drugih lastnosti materialov - 3. del: Kalibracija referenčnih etalonov (ISO/DIS 14577-3:2024)

Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 3: Calibration of reference blocks (ISO/DIS 14577-3:2024)

Metallische Werkstoffe- Instrumentierte Eindringprüfung zur Bestimmung der Härte und anderer Werkstoffparameter- Teil3: Kalibrierung von Referenzproben(ISO/DIS 14577-3:2024)

Matériaux métalliques - Essai de pénétration instrumenté pour la détermination de la dureté et de paramètres des matériaux - Partie 3: Étalonnage des blocs de référence (ISO/DIS 14577-3:2024)

Ta slovenski standard je istoveten z: prEN ISO 14577-3

ICS:

77.040.10 Mehansko preskušanje kovin Mechanical testing of metals

oSIST prEN ISO 14577-3:2024 en,de

oSIST prEN ISO 14577-3:2024

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

oSIST prEN ISO 14577-3:2024

https://standards.iteh.aj/catalog/standards/sist/72815e40-afe6-4405-983a-b628242ae144/osist-pren-iso-14577-3-2024



DRAFT International Standard

ISO/DIS 14577-3

Metallic materials — Instrumented indentation test for hardness and materials parameters —

Part 3: **Teh St Calibration of reference blocks**

Matériaux métalliques — Essai de pénétration instrumenté pour la détermination de la dureté et de paramètres des matériaux —

Partie 3: Étalonnage des blocs de référence

OSIST prEN ISO 14577-3:2 124

ICS: 77.040.10 a-b628242ae144/osist-pren-iso-14577-3-2024

ISO/TC 164/SC 3

Secretariat: DIN

Voting begins on: **2024-07-31**

Voting terminates on: 2024-10-23

This document is circulated as received from the committee 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 14577-3:2024(en)

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

oSIST prEN ISO 14577-3:2024

https://standards.iteh.ai/catalog/standards/sist/72815e40-afe6-4405-983a-b628242ae144/osist-pren-iso-14577-3-2024



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

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 14577-3:2024(en)

Contents				Page	
Fore	word			iv	
Introduction					
1	Scop	e		1	
2	Normative references			1	
3	Manufacture of reference blocks				
4	4.1 4.2 4.3	Gener Calibr Verific 4.3.1 4.3.2 4.3.3 Calibr	machine ral ration of the test force cation of the indenter General Vickers indenter Berkovich, modified Berkovich, corner cube indenters, ball indenters, and spheroconical indenters ration of the displacement measuring device	2 3 3 3	
	4.5		cation of the testing cycle		
5		Calibration procedure			
6	Number of indentations				
7	Uniformity of the reference blocks			5	
8	Marking				
9				7	
Bibli	iograp)	hy	(https://standards.itah.ai)	8	

Document Preview

oSIST prEN ISO 14577-3:2024

https://standards.iteh.ai/catalog/standards/sist/72815e40-afe6-4405-983a-b628242ae144/osist-pren-iso-14577-3-2024

ISO/DIS 14577-3:2024(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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 3, *Hardness testing*.

This third edition cancels and replaces the second edition (ISO 14577-3:2015), which has been technically revised.

ISO 14577 consists of the following parts, under the general title *Metallic materials* — *Instrumented indentation test for hardness and materials parameters*:

- Part 1: Test method
- Part 2: Verification and calibration of testing machines
- Part 3: Calibration of reference blocks
- Part 4: Test method for metallic and non-metallic coatings
- Part 5: Linear elastic dynamic instrumented indentation testing (DIIT)