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Fourth edition  
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## **Metallic materials — Vickers hardness test —**

### **Part 2: Verification and calibration of testing machines**

*Matériaux métalliques — Essai de dureté Vickers —*

*Partie 2: Vérification et étalonnage des machines d'essai*



Reference number  
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ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

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## 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)).

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For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 3, *Hardness testing*.

This fourth edition cancels and replaces the third edition (ISO 6507-2:2005), which has been technically revised.

The main changes compared to the previous edition are as follows:

- all references of indentation diagonals, <0,020 mm, have been removed;
- requirements for the calibration and verification of the measuring system have been revised;
- requirements for the maximum permissible error in measuring a reference indentation have been revised;
- recommendations for inspection and monitoring of the indenter have been moved to ISO 6507-1;
- requirements have been added to the test report for reporting the hardness values of reference blocks used;
- [Annex A](#) has been revised.

A list of all parts in the ISO 6507 series can be found on the ISO website.