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

### **Part 3: Calibration of reference blocks**

*Matériaux métalliques — Essai de dureté Vickers —  
Partie 3: Étalonnage des blocs de référence*



Reference number  
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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 6507-3:2005), which has been technically revised.

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

- requirements have been added for the maximum test surface area of the reference block;
- requirements have been revised for the maximum uncertainty of the line intervals on the stage micrometer;
- requirements for the calibration and verification of the measuring system have been revised per ISO 6507-2;
- requirements for the uniformity of the reference block hardness have been revised to account for different numbers of calibration indentations;
- the timing requirements for the approach velocity and the time duration at maximum test force have been revised to indicate a target time value;
- [Annex A](#) has been revised.

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