

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1817.3—2002

**Metallic materials—Vickers hardness test
Method 3: Calibration of reference blocks**

RECONFIRMATION NOTICE

Technical Committee MT-009 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 20 March 2017.

The following are represented on Technical Committee MT-009:

Australasian Institute of Surface Finishing
Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Steel Institute
Bureau of Steel Manufacturers of Australia
Galvanizers Association of Australia
Galvanizing Association of New Zealand
New Zealand Metal Roofing Manufacturers

NOTES

Australian Standard™

AS 1817.3

Metallic materials—Vickers hardness test

Method 3: Calibration of reference blocks

PREFACE

This Standard was prepared by Standards Australia Committee MT-006, Mechanical Testing of Metals to supersede (in part) AS 1817—1991, *Metallic materials—Vickers hardness test*.

This Standard is identical with and is reproduced from ISO 6507-3:1997, *Metallic materials—Vickers hardness test*, Part 3: *Calibration of reference blocks*.

This Standard is Method 3 of a series of Standards covering the Vickers hardness testing of metallic materials.

The series comprises the following Methods:

AS

1817	Vickers hardness test
1817.1	Method 1: Test method (ISO 6507-1:1997, MOD)
1817.2	Method 2: Verification of testing machines
1817.3	Method 3: Calibration of reference blocks

The force values in this Method were calculated from kilogram force values. they were introduced before the SI-system was adopted. It was decided to keep the values based on the old units for this Method but in the next revision it will be necessary to consider the advantage of introducing rounded values of test force and their effect on the hardness scales.

Attention is drawn to the fact that in this revision the following aspects should be considered:

- (a) Addition of a new Figure 1 for the demonstration of the permissible difference of the sectional planes of the square form of the indenter.
- (b) Addition of a new table (Table 1) for the estimation capability and the maximum permissible error of the measuring device.
- (c) Changing of the values for the maximum permissible value of non-uniformity of the reference blocks in Table 3.
- (d) Addition of a new Clause 9 concerning the validity of the reference blocks.

As this Standard is reproduced from an International Standard, the following applies:

- (i) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (ii) In the source text 'this part of ISO 6507' should read 'this Australian Standard'.
- (iii) A full point should be substituted for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to equivalent Australian Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
376	Metallic materials—Calibration of force-proving instruments used for the verification of uniaxial testing machines	—	
468	Surface roughness—Parameters, their values and general rules for specifying requirements	—	
4287	Geometrical Product Specifications (GPS)—Surface texture: Profile method—Terms, definitions and surface texture parameters	—	
6507	Metallic materials—Vickers hardness test	1817	Metallic materials—Vickers hardness test
6507-1	Part 1: Test method	1817.1	Method 1: Test method (ISO 6507-1:1997, MOD)
6507-2	Part 2: Verification of testing machines	1817.2	Method 2: Verification of testing machines