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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 4340.4-2022

**Metallic materials - Vickers hardness test - Part 4: Tables of
hardness values**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 4 of GB/T 4340 "Vickers Hardness Test for Metallic Materials". GB/T 4340 has published the following parts.

- Part 1. Test methods;
- Part 2. Inspection and calibration of hardness testers;
- Part 3. Calibration of standard hardness blocks;
- Part 4. Table of hardness values.

This document replaces GB/T 4340.4-2009 "Vickers Hardness Test for Metal Materials Part 4. Table of Hardness Values", and

Compared with GB/T 4340.4-2009, in addition to structural adjustment and editorial changes, the main technical changes are as follows.

- Added the statement of the calculation method of Vickers hardness value (see Chapter 4);
- Delete the Vickers hardness value with an average indentation diameter greater than 1.400mm (see Table 3 of the 2009 edition).

This document is equivalent to ISO 6507-4:2018 "Vickers Hardness Test for Metal Materials Part 4. Table of Hardness Values".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 4340 "Vickers Hardness Test for Metal Materials" aims to standardize the Vickers hardness test method of metal materials, the inspection and calibration of hardness testers Standard, standard hardness block calibration and hardness value and so on.

GB/T 4340 consists of four parts.

- Part 1. Test methods;
- Part 2. Inspection and calibration of hardness testers;
- Part 3. Calibration of standard hardness blocks;
- Part 4. Table of hardness values.

This document provides indentation diagonals below 1.961N, between 1.961N~29.42N and between 49.03N~980.7N

The comparison table of length and corresponding Vickers hardness value is convenient for standard users to consult and use.

Vickers hardness test of metal materials

Part 4. Table of hardness values

1 Scope

The table of hardness values given in this document applies to Vickers hardness testing in accordance with ISO 6507-1.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

ISO 6507-1 Vickers hardness test for metallic materials - Part 1. Test methods
(Metalicmaterials-Vickershard-
nesstest-Part 1. Testmethod)

Note. GB/T 4340.1-2009 Vickers hardness test of metallic materials Part 1. Test method
(ISO 6507-1.2005, MOD)

3 Terms and Definitions

There are no terms and definitions that need to be defined in this document.

4 Vickers hardness table

Table 1, Table 2 and Table 3 give the Vickers hardness value table calculated according to the ISO 6507-1 Vickers hardness formula.

The range $< \text{HV}0.2$ is shown in Table 1; the range $\text{HV}0.2\text{--}\text{HV}3$ is shown in Table 2; the range $\text{HV}5\text{--}\text{HV}100$ is shown in Table 3.