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

GB/T 38243-2019

Rubber - Calibration and verification of hardness testers

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 18898.2016 "Test and Calibration of Rubber Hardness Tester".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

Rubber and rubber -- Determination of hardness of indented rubber -- Part 1 . Shore hardness test method

(Shaoer hardness) (ISO 7619-1.2004, IDT)

Rubber and rubber -- Determination of hardness of indented rubber -- Part 2 . Portable rubber country

Hardness test method (ISO 7619-2.2004, IDT)

---GB/T 6031-2017 Determination of hardness of vulcanized rubber or thermoplastic rubber (10IRHD~100IRHD) (ISO 48.

2010, IDT)

---GB/T 25269-2010 Rubber Test Equipment Calibration Guide (ISO 18899.2004, IDT)

---GB/T 27025-2008 General requirements for testing and calibration laboratory capabilities (ISO /IEC 17025.2005, IDT)

1 Scope

This standard specifies Type A, Type D, AO and AM Shore Hardness Testers (see ISO 7619-1), Portable Rubber International Hardness Tester

(see ISO 7619-2), rubber international hardness tester (see ISO 48) and ultra-soft rubber hardness tester (see ISO 27588) technical requirements for inspection and calibration

Summation method.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 48 vulcanized rubber or thermoplastic rubber hardness (10IRHD~100IRHD) [Rubber, vulcanized or

thermoplastic-Determination of hardness (hardness between 10IRHD and 100IRHD)]

Vulcanized rubber or thermoplastic rubbers - Test method for hardness - Part 1 . Shore hardness test method (Shore hardness)

[Rubber, vulcanized or thermoplastic-Determination of indentation hardness-Part 1. Durometer Method (Shore hardness)]

Vulcanized rubber or thermoplastic rubbers - Determination of hardness - Part 2. Portable rubber international hardness test method

(Rubber, vulcanized or thermoplastic-Determination of indentation hardness-Part 2. IRHD pocket

Meter method)

ISO 18899 Rubber Test Equipment Calibration Guide
(Rubber-Guide to the calibration of test equipment)

ISO 27588 vulcanized rubber and thermoplastic rubber with static softness tester using a soft rubber hardness tester [Rubber, vulcanized or

thermoplastic-Determination of dead-load hardness using the very low rubber hardness (VLRH) Scale]

General requirements for ISO /IEC 17025 testing and calibration laboratory capabilities
(General requirements for the competence of

Testing and calibration laboratories)

3 Terms and definitions

The terms and definitions defined by ISO 48 and ISO 18899 apply to this document.

4.1 Environmental conditions

The room temperature should be within the range of 18 ° C ~ 25 ° C for inspection and calibration.

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