



00455

MANUAL DIGITAL HARDNESS CHECK - DRIVE

**PORTABLE DIGITAL SHORE HARDNESS TESTER.
AVAILABLE SCALES: SHORE A, D, AO, OO**

STANDARDS: ASTM D2240; FIAT 504II; ISO 868; ISO 48-4; ISO 12046; ISO 7267-2; VDA 675-202;

NOTE: COMPLIANCE WITH SOME STANDARDS MAY REQUIRE OPTIONAL ACCESSORIES OR SETUPS.



Digital Shore Hardness tester for the performance of hardness tests that can be used manually or in combination with support. The instrument can be used as stand-alone device or can be connected to HardnessCheck software for automatic storage of test results.

Key features

- High-resolution sensor and frictionless mechanical construction to ensure extreme accuracy and repeatability of measurements.
- Calculation of **initial hardness** and **hardness after set test time**.

- **Measurement of ambient temperature**, specimen surface temperature and relative humidity.
- Storage of 60 measurements in device memory for later transmission to software.
- 25x50 mm digital display.
- Long-lasting rechargeable lithium battery.
- Control of the approach force applied to the instrument during manual operation.
- **Quick application of the hardness tester to the stand** without the need for perpendicularity adjustment.

Hardness-Check Software

Allows you to automatically acquire data and curves during test execution, enter test identification, verify compliance with tolerance limits, save numerical results and curves in the SQL database to ensure the traceability of your tests.

ISO 17025-Accredited calibration

ACCREDIA Calibration carried out by Accredited Gibitre laboratory.

Accessories

- Support with manual sample displacement
- Additional holder for the testing on round surfaces

Hardness sensors available: Shore (A, D, OO, AO)

Calculated Results: Initial hardness; Hardness values after customer defined test times; Ambient Temperature; Temperature of the surface of the sample; Relative Humidity

Resolution of Hardness Measure: 0.01 Shore points

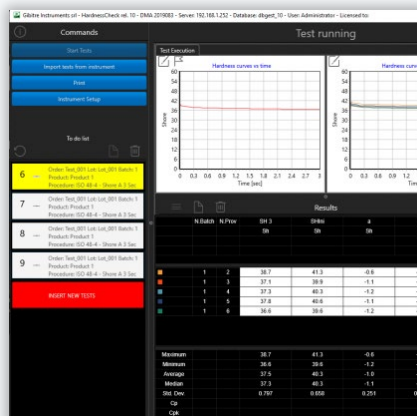
Digital Display Dimensions: 25x50 mm (128x64 Pixels)

Battery: Lithium battery for up to 8 hours continuous usage

Battery Charge: Usb cable and plug for 110/220 V 50/60Hz included

Support features: Adjustable distance between hardness sensor and sample (Max 160 mm)

Personal Computer (optional): Minimum Setup: Windows 10 or 11, Intel Core i5, 5GB RAM





CERTIFIED SAMPLES

GIBITRE INSTRUMENTS PROVIDES CERTIFIED SAMPLES FOR SHORE AND IRHD HARDNESS VERIFICATION



Certified samples for the periodic verification of the conformity of the measurements made by your durometers.

Overview

Specimens are available for Shore A, Shore D, Shore M, IRHD-N and IRHD-Micro hardness scales. Certified Specimens are a quick and effective tool for systematic verification of compliance of measurements in the period between two calibrations.

Characteristics of the product

The hardness of elastomeric products is strongly influenced by the temperature. For this reason, the samples produced by Gibitre have a shape that permits easy handling without transmitting the heat of the hand to the testing area. The samples are provided with calibration Certificate with traceability to the certified hardness tester used for the measurements.

The samples are provided with an insulated protection case that permits the protection of the samples from temperature variations and from the light.

Available Configurations

- Complete box including 5 samples with different hardness within the selected hardness scale (approximately 40 - 50 - 60 - 80 - 90)
- Box containing one single sample with one of the available hardness

Available Scales: Shore: A, D, M; IRHD: M, N

Shape of the samples: The shape of the samples has been developed to permit easy handling without heat transmission to the test area

Protection Box: The wooden box ensures protection against light and temperature variations

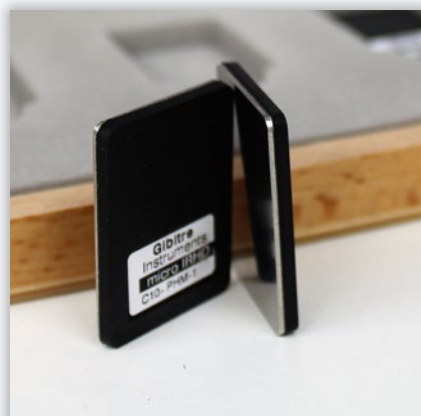
Sample identification: The samples have unique identification code to permit

the traceability of the calibration

Calibration Report: The calibration report is issued by Gibitre Instruments and includes the traceability to the officially-calibrated hardness tester used for the measures

Calibration uncertainty: ± 2 Hardness Points

Suggested re-calibration : 12 months





ISO 17025 ACCREDITED CALIBRATION

GIBITRE INSTRUMENTS IS ACCREDITED ACCREDIA CALIBRATION LABORATORY ACCORDING TO ISO 17025:2018 STANDARD AND PROVIDES CALIBRATION SERVICE FOR HARDNESS (SHORE & IRHD) AND TENSILE (FORCE, ELONGATION, SPEED) TESTERS



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The Gibitre Instruments' metrology laboratory is an accredited Calibration Laboratory (**LAT 00455**) since 2005.

The calibration Laboratory complies with the **ISO 17025:2018** standard.

The laboratory is currently accredited for the

calibration of:

Hardness Testers

- IRHD (Micro, Normal, Hard, Low) according to ISO 48-9
- Shore hardness testers A and D according to ISO 48-9 and ISO 868

Tensile Testers

- Force according to ISO 7500-1
- Elongation & Displacement according to ISO 9513 and ISO 5893
- Speed according to ISO 5893 and ASTM E2658

Place of performance of the Calibrations: Gibitre Instruments is accredited for calibrations; - At the Gibitre metrology laboratory; - At the customer's laboratory.

Calibration of Hardness Testers:

IRHD (Micro, Normal, Hard, Low) hardness testers : According to ISO 48-9 & ISO 48-2 Standards

Shore hardness testers A and D: According to ISO 48-9, ISO 48-4 and ISO 868 Standards

Calibration of Tensile Testers (UTM):

Calibration of Force: According to ISO 7500-1.;

Calibration of Elongation: According to ISO 9513 and ISO 5893

Calibration of Speed: According to ISO 5893 and ASTM E2658

Note about Calibration at customer site: Calibration of Shore & IRHD Hardness Testers performed at the customer's site does not include dimensional calibration of the indenter and can only be performed for Gibitre brand instruments

