

Certified calibration options for new or used testers

Three different calibration certifications (certificates) are available. All three are performed with quality systems that meet or exceed ISO/IEC 17025:2005 requirements.

Standard Calibration (Z540.1): Barcol hardness tester is calibrated to manufacturer's specifications using NIST-traceable standards in full ANSI Z540-1 compliance. Only out-of tolerance conditions are reported, if the hardness tester is found to be out-of-tolerance (OOT).

Standard Calibration (Z540.1) with Data (before/after data): Barcol hardness tester is calibrated to the manufacturer's specifications with NIST traceable standards that are in full compliance of ANSI Z540-1. Full before/after Data Report is recorded and shown on the calibration certificate.

17025 Accredited Calibration: Barcol hardness tester is calibrated in accordance with ISO/IEC 17025:2005. The calibration certificate includes reporting of full before/after data and associated uncertainty of measurements. The certificate also includes an accreditation logo.

| | Standard Calibration | Standard Calibration with Data | 17025 Accredited Calibration |
|---|----------------------|--------------------------------|------------------------------|
| ANZI Z540-1 Compliant | ✓ | ✓ | ✓ |
| NIST ¹ Traceable Calibration | ✓ | ✓ | ✓ |
| Out-of-Tolerance (OOT) Notification | ✓ | ✓ | ✓ |
| As Found/As Left Test Data | OOT ² | ✓ | ✓ |
| Adjustments to Manufacture's Specs | ✓ | ✓ | ✓ |
| Online Electronic Certificate (DATA) | ✓ | ✓ | ✓ |
| ISO/IEC 17025 Accredited Calibration | | | ✓ |
| Test Point Specific Uncertainty Data | | | ✓ |

Notes:

- 1 - Calibrations are traceable to NIST, NPL (UK), PTB, or The International Systems of Units (SI).
- 2 - Only as found data, if hardness tester is found out-of-tolerance.

Calibration using test discs

The GYZJ-934-1 (our item number J1927) is a standard Barcol hardness tester that does NOT include a certification of calibration. You can calibrate these units yourself by following the instructions that are included with this tester. Two standard test discs are included with each hardness testers for this purpose.

Hardness testers can be tested with either standard test disks or NIST traceable certified test discs. Certified test discs include a Certificate of Calibration that documents the use of NIST traceable measuring devices. Certificate also includes 5 Vickers readings (5 tests) on each disc within tolerances allowed by ASTM Standard E-384. Certified test discs are sold by the pack. 5 discs per pack.

Certified calibration certificates

Hardness testers can be originally ordered as calibrated models that will include a certificate of calibration. Or, you can send a Barcol hardness tester back to us, and we will return it with a certificate of calibration for whichever one of the three calibrations you choose. All testing and calibration is performed using quality systems that meet or exceed ISO/IEC 17025:2005.