James Walker		Date:	Rev:	Page:	Document No: QPD130
	Hardness Tester Calibration	Sep 23, 2021	4	Page 1 of 1	Approved by: Mark Ashbridge

REASON FOR UPDATE: Removal of step 5 - 'Store the written calibration sheet', as step 4b covers this.

ASSOCIATED DOCUMENTS: N/A

1. PURPOSE

1.1 To provide a procedure for the calibration of a portable hardness block.

2. SCOPE

2.1 This document applies to all those involved with the a portable hardness block

3. RESPONSIBILITY

3.1 The Test Room Manager is responsible for updating and communicating the details within this procedure.

4. PROCEDURE

- B. Transfer Standard: Calibrated externally by Trescal Limited
- C. Calibration Process:
- 1. Make sure the hardness tester and block are both in good condition before sending for calibration.
- 2. Raise order, package the hardness tester and block and send to Trescal Limited.
- 3. Trescal Limited
 - 1. The reference test block is tested on a Vickers hardness test machine.
 - 2. A performance test is then carried out using the calibrated test block and an average reading is taken.
 - 3. Using equipment FC 158.
 - 4. Record the cert No., Job No., Hardness tester manufacturer, Serial No. Range, Units, Hardness tester serial number, Calibration date and Calibrators name.
 - 5. Add a calibrated sticker to the body of the hardness tester.
 - 6. Return hardness tester, block and calibration certificate to James Walker.

4. Upon return

- a. Check the cal cert for acceptance, all errors +/-1%.
- b. If < 1% book the certificate in to the calibration system.
- c. If > 1% either
 - i. Apply a sticker to the front of the hardness tester giving its range and uncertainty,
 - ii. Destroy hardness tester and certificate.
 - iii. Repair hardness tester and recertify.
 - iv. Notify Quality about the hardness tester and proposed solution.