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BRINELL TEST BLOCK

LONG FORM CERTIFICATE OF CALIBRATION

The WESTport Standards Laboratory certifies that the calibration results recorded on this certificate are true and correct. This test block has been manufactured and standardized by WESTport (OEM) in accordance with ASTM standard E10-08 using Type A indentation measuring device, and which scales are maintained traceable to WESTport hardness. This test block was calibrated on a verified laboratory standard tester with load and depth measuring devices traceable to NIST. NQA Accreditation certification # 11027/1; ACLASS Accreditation certification # AC-1298. * Use this hardness test block to verify the operation of a hardness tester in accordance with ASTM E10-08.

- NIST LAB No. 822.07/253553 NIST LAB No. 143676 Lab Enviro: 75°F +/- 5°F
- Stage Micrometer #0024 in 0-7 mm N.I.S.T. Test No. 821/264390-00
- Equipment: Model HB-3000B; Serial No. 115

Certification \ Serial No. 09B0543 **Load:** 500 kg. **Ball:** 10 mm
Calibration Date: 9/24/2009 (Expires 5 years from date) **Technician:** *Pablo Snyando*
Reference Indentation location: Marked with flag **Ref. Cert. Value:** 64 / 3.11 mm

CERTIFIED HARDNESS READINGS

HARDNESS NUMBER	DIAMETER
Top Left 64	3.12
Bottom Left 64	3.12
Center 64	3.11
Top Right 64	3.11
Bottom Right 64	3.12
AVG: 64 HBW	*AVG: 3.12 MM +/- 2%
2.6 Expanded uncertainty +/- (based on confidence level of not less than 95% with coverage factor of K=2.)	

* The +/- Tolerance is calculated using the Diameter (mm) Average, as per ASTM E10 Section A4.5.4, & Table A4.2, & Eq. A4.1

This certificate and its reported results relate only to the serial numbered items listed.



**This certificate may not be reproduced except in full.
ISO 17025, ISO 9001, & ISO 6506**