



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Gilmore Diamond Calibration Laboratory**

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**CALIBRATION LABORATORIES**

**NVLAP LAB CODE 200538-0**

**MECHANICAL**

*NVLAP Code:* 20/M13

Calibration of Rockwell Indenters, HRA, HRC, HRD, and HRN Scales

<i>Measured Quantity</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks</i>
Diamond	3 minutes	Mean Cone Angle
	0.00204 mm	Mean Tip Radius
	0.00102 mm	Single Tip Radius
	5 minutes	Diamond Axis Inclination
	0.0008 mm	Straightness of Polished Cone
	0.01 HR	Indenter Performance
Ball	0.00204 mm	Ball Protrusion
	0.28 HR	Indenter Performance

1. Represents an expanded uncertainty using a coverage factor,  $k = 2$ , at an approximate level of confidence of 95 %.
2. All calibrations performed compliant with ASTM E18 and/or ISO 6508.

2009-01-01 through 2009-12-31

*Effective dates*

*Sally S. Bruce*

*For the National Institute of Standards and Technology*