

DAVID L. ELLIS COMPANY, INC.

310 Old High Street, P.O. Box 592, Acton, MA 01720

Fax: 978-897-0844 Voice: 978-897-1795 sales@hardness-testblocks.com www.hardness-testblocks.com

Certificate of Calibration and Conformance for Rockwell Test Block

SAMPLE ONLY

55.43	HRC
Serial Number	6197
Date Cal	12/23/13
Temp Deg C	21
HUMID %	42
Note 1- Uncertainty of secondary standardizing machine that calibrated this testblock.	
Note 2- Uncertainty of this calibrated secondary testblock. Use this value for On-Site Unc. during indirect verification.	
K=2	
NIST Test Speed	
Dwell Minor Load / 3 sec	
Dwell Major Load / 5 sec	
Dwell Recovery / 4 sec	

Force KGF	150	Block Certificate No.	
Force N	1471.05		6197
Indenter type-Method	Diamond	Operator	LKM
	ASTM E18-12		
Unc tester (1)		0.32	HRC
Unc Block (2)		0.33	HRC
Reading 1		55.32	HRC
Reading 2		55.31	HRC
Reading 3		55.45	HRC
Reading 4		55.43	HRC
Reading 5		55.46	HRC
Reading 6		55.62	HRC
Average		55.43	
Std. Dev.		0.11	
Min		55.31	
Max		55.62	
Repeatability		0.31	
Tolerance. +/-		1.0	HRC

The above calibration was verified with the following equipment, which is traceable to NIST, PTB, IMGC or NPL.

United Tru-Blue II Standardizing Machines
Serial Number: 281620, 211220

Star Industrial Tools UKAS
Star #ST11864

The standardized test blocks are calibrated in accordance with ASTM E18 Annex A4 using NIST Rockwell standard reference materials (SRM) 2810, 2811 and 2812. All other Rockwell scales are traceable to Ellis hardness levels through laboratory standardizing machines and PTB, IMGC or NPL. The standardizing machines are directly verified according to ASTM E18 using devices that are traceable to NIST either directly or through a NVLAP approved laboratory.

Expanded uncertainty uses coverage factor K=2, providing a confidence level of approximately 95%

This test report is not to be used to claim product endorsement by the David L. Ellis Company Inc., NVLAP or any government agency.

This block is calibrated according to A.S.T.M. E-18 standards, ANSI (NCSL) Z540-1, (ISO) 10012, ISO/IEC 17025 and MIL-STD 45662A by David L Ellis Co., Inc. and NVLAP Lab Code: 200127-0 CALIBRATION LABORATORIES



Representative

This certificate may not be reproduced except in full



Lab Code:200127-0
Calibration Laboratories