



LEDFORD GAGE LAB, INC.

227 Industrial Drive
Mulvane, Kansas 67110
(316) 777-9300

Calibration Report

Certificate ID: 15501-60442

Calibration Date:

2/14/2019

Report Date / Time

2/14/2019

10:53:22 AM

Set Information

Set Serial #: 7346 Set Size: 78
Set Type: Gage Blocks
Gage Notation: English
Brand: SHARS
Grade: WS
Material: STEEL RECT
Tolerance:
Condition: Good

Next Scheduled Calibration Date: 2/14/2020

Location Information

ALLTITE
1600 E. MURDOCK

WICHITA, KS
67214

P.O. Number 0002615

Calibration and Testing Information

AS FOUND AND FINAL READINGS ARE THE SAME.

Calibration Procedure and Lab Traceability Information

Procedure ID 012 REV. 3.4

This gage has been inspected to the requirements of GGG-G-15c or ASME B89 1.9, ISO/IEC 17025-2005, ISO 10012-1, and ANSI/NCSL Z540-1, and revisions or supplements. We state that the accuracy has been determined by Ledford Gage Lab Std., which are traceable to NIST Test#683/288287-16. Gage Blk. Comp. D-24, 10045 dated 4-1-18 due 4-1-19. Gage Blk Grd. 0 SN# A0308 dated 3-23-18, Test#683/285541-14. Gage Blk Grd AS1 SN: 72507.6 dated 10-13-16 Test # 683/288287-16. Gage Blk Grd. 00 SN:303867 dated 2-16-2018 Test#683/289870-17. Gage Blk Grd. 0 SN:K6Z10 Test# 683/288287-16, dated 11-1-17. Gage Blk Grd. 0 SN: K6Z9 Test# 683/289870-17, dated 11-1-17. Gage Blk Grd. 0 SN: K628 Test# 683/289870-17, dated 12-18-17. Gage Blk Grd. 0 SN: 92105.5 Test# 683/291518-18, dated 09-08-18. Ceramic Gage Blk Grd. 0 SN: 1203204 Test# 683/291518-18, dated 09-08-18. Metric Gage Blk Grd. 0 SN: A0298 Test# 683/289870-17, dated 10-16-18.

Lab Conditions

Lab Temperature: 67.7 °F 19.8 °C Humidity: 44.0 % Lab: Primary

Calibration data shown on subsequent pages.

This Certificate may not be reproduced, except in full, without the written approval of Ledford Gage Lab., Inc.
Ref: ISO/IEC 17025:2005.

Gage Block Calibration Data					Calibration Date:		Report Date / Time		
Certificate ID:		15501-60442			2/14/2019		2/14/2019	10:53:35 AM	

Size	Serial	Error	(µin)	Code	Expanded Uncertainty (+/-)	Size	Serial	Error	(µin)	Code	Expanded Uncertainty (+/-)
.1001	61894	+13.2		SR	4.5	.122	58569	-8.7		S	4.5
.1002	63968	-2.5		SR	4.5	.123	54807	-15.7		S	4.5
.1003	62732	+17.9		S	4.5	.124	56159	+2.3		S	4.5
.1004	63922	-28.6		S	4.5	.125	60355	-21.0		S	4.5
.1005	61559	-13.0		S	4.5	.126	53005	-11.7		S	4.5
.1006	61759	+5.3		S	4.5	.127	58650	+7.8		S	4.5
.1007	59373	+11.2		S	4.5	.128	60205	+29.7		S	4.5
.1008	56525	-8.5		S	4.5	.129	59068	+2.0		S	4.5
.1009	61315	+9.5		S	4.5	.130	61292	+9.4		S	4.5
.101	57124	+2.3		S	4.5	.131	56493	-5.6		S	4.5
.102	61575	+1.8		S	4.5	.132	56336	+21.8		S	4.5
.103	59784	-3.7		S	4.5	.133	55885	-4.9		S	4.5
.104	60777	-15.8		S	4.5	.134	53377	-1.5		S	4.5
.105	50773	-10.5		S	4.5	.135	54314	+4.6		S	4.5
.106	52259	-13.3		SR	4.5	.136	53671	-7.6		S	4.5
.107	59228	+15.4		SR	4.5	.137	60285	+15.8		S	4.5
.108	59186	+10.4		SR	4.5	.138	58329	-10.9		S	4.5
.109	69991	+43.8		SR	4.5	.139	54728	+0.6		S	4.5
.110	54926	-5.0		S	4.5	.140	63297	+22.1		S	4.5
.111	63806	-0.2		SR	4.5	.141	30113	+0.6		S	4.5
.112	57740	+12.4		S	4.5	.142	57308	-6.4		S	4.5
.113	57004	-3.5		S	4.5	.143	49235	+38.1		S	4.5
.114	53573	-9.4		S	4.5	.144	55655	+1.6		S	4.5
.115	58289	+25.2		S	4.5	.145	57593	+0.8		S	4.5
.116	55113	+5.6		SR	4.5	.146	53598	-2.8		S	4.5
.117	56347	-10.8		S	4.5	.147	58656	-1.7		S	4.5
.118	49994	-3.3		S	4.5	.148	58460	-27.3		S	4.5
.119	57110	+3.2		S	4.5	.149	56473	-3.5		S	4.5
.120	63424	+18.8		S	4.5	.150	56052	+9.4		S	4.5
.121	51777	-14.4		S	4.5	.250	57182	-12.5		S	4.7

S = Surface Damage / Scratched R = Rust N = New X = Beyond Measuring Limits B = Brinelled M =
Missing T = Tapered C = Chipped µin = micro-inches µm = micro-meters

XXX.XXX Indicates Reject

Gage Block Calibration Data

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Size	Serial	Error	(μ in)	Code	Expanded Uncertainty (+/-)
.300	62255	-2.9		S	4.8
.350	61643	+5.2		S	4.9
.400	81568	+9.0		SR	4.9
.450	67522	+17.2		SR	5.0
.500	76053	+12.3		S	5.1
.550	62284	+5.0		SR	5.2
.600	58384	+16.0		SR	5.3
.650	60576	+11.3		SR	5.3
.700	65195	+20.1		SR	5.4
.750	57762	-6.9		SR	5.5
.800	57436	+9.9		S	5.6
.850	67675	-4.1		SR	5.7
.900	59411	-1.7		S	5.7
.950	45438	+10.9		SR	5.8
1.000	74816	+8.8		SR	5.9
2.000	79840	-15.4		SR	7.5
3.000	70376	-21.6		SR	9.1
4.000	74008	+21.8		SR	11.0

Tolerances:

TOLERANCE FOR WORKSHOP GRADE GAGE BLOCKS: OVER .050" THRU .400" +/- 5.0(uin),
OVER .400" THRU 1" +/- 6.0(uin), 2" +/- 8.0(uin), 3" +/- 10.0(uin), 4" +/- 12.0(uin).



No. 1560.01
Calibration Labs

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Ledford Gage Lab, Inc. cannot be responsible for any damages to the gage resulting from the use, misuse, or mishandling of this gage after the date of certification. Ledford Gage Lab, Inc.'s responsibility shall in no event exceed the purchase price of the certified gage.

Mindy White
Lab Technician Mindy White

Lab Tech.

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