



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

HOLO-KROME LABORATORY
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Wallingford, CT 06492
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MECHANICAL

Valid To: September 30, 2016

Certificate Number: 1046.06

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following fastener tests on steel and stainless steel:

Test:

Test Methods:

Case Depth

ISO 2639; SAE J423

Decarburization

ASTM F835, F912, F912M, F2328;
ISO 898-1, 898-5

Discontinuity (Visual)

ASTM F788 (6.5.1.4); ISO 6157-1, ISO 6157-3

Hex Socket Strength

ASTM F912, F912M; ISO 898-5, 3506-3

Microhardness

Vickers (200 gf and 500 gf)

ASTM E384

Proof (Bolts/Screws)

ASTM F606 (3.2.3), F606M (3.2.3);
ISO 898-1

Rockwell Hardness (A, B, C, 30N)

ASTM E18, F606 (3.1), F606M (3.1);
ISO 898-1

Sampling

ASME/ANSI B18.18; ASTM F1470;
Per customer specification

Straightness

ASME B18.2.9

Stress Durability (Hydrogen Embrittlement)

NASM-1312-5

Tensile (Axial/Wedge)

ASTM F606, F606M; ISO 898-1

Visual Inspection

ASME B18.18

I. Dimensional Testing¹

Parameter	Range	CMC ² (\pm)	Technique / Method
Internal Socket ³	(0.050 to 1.00) in	N/A	Hex Go/No-Go / ASME B18.3
	(1.5 to 32) mm	N/A	Hex Go/No-Go / ASME B18.3.1M
Linear ³	Up to 1 in	0.00015"	Digital Micrometer
	6 in	0.0017"	Calipers
	8 in	0.0016"	Calipers
	12 in	0.0017"	Calipers
	X axis: Up to 12 in Y axis: Up to 8 in	0.00073" 0.00068"	Optical Comparator / Manufacturer's Manual
Threads (Sys 21) ³	#0 to 2 in	N/A	Rings / ANSI/ASME B1.2, B1.3
	M2 to M42	N/A	Rings / ANSI/ASME B1.16M

¹ This laboratory does not offer commercial dimensional testing service.

² Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

³ This test is not equivalent to that of a calibration.





American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

HOLO-KROME

Wallingford, CT

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 29th day of August 2014.





President & CEO

For the Accreditation Council
Certificate Number 1046.06
Valid to September 30, 2016

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.