



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

WN GLOBAL LABORATORY ¹
12895 South Main Street
Houston, TX 77035
Lester Burgess Phone: 713 726 1000

MECHANICAL

Valid To: June 30, 2024

Certificate Number: 0929.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the two satellite laboratory locations listed below*, to perform the following tests on fasteners, metals, and alloys:

I. Mechanical Testing

Test Technology:

Test Method(s) ²:

Hardness

Rockwell (HRBW & HRC)
Brinell (3000 Kg)
Microhardness (HK 500g & HV 500g)

ASTM A370, E18, F606/F606M
ASTM A370, E10, F606/F606M
ASTM E384

Tensile

(axial & wedge, tension testing, yield, ROA, %E)

ASTM A370, E8/E8M, F606/F606M

Proof

(internally and externally threaded)

ASTM A370, F606/F606M

Discontinuities

ASTM F788, F812;
SAE J122 ³ (cancelled 01/04/17),
SAE J123 ³ (cancelled 04/10/12)

Charpy Impact (-150° F to Room Temperature)

ASTM A370, E23

Coating Thickness

ASTM B499

Metallographic Evaluation:

Macroetch
Decarburization

ASTM E340, E381
ASTM E1077, F2328;
SAE J419, J121 ³ (cancelled 02/01/13)
ASTM E112 (Comparison Method Only)
ASTM E45, Method A

Grain size
Inclusion Content

XRF (PMI)

ASTM E1476

Test Technology:**Test Method(s) ²:****Chemical Testing**

Spark Atomic Emission Spectrometry on Steel, ASTM E415, E1086, E3047
 Stainless Steel and Nickel Base Alloys
 (Al, B, C, Cr, Co Cu, Fe, Mn,
 Mo, Nb, Ni, P, S, Si, Ti, V)

II. Dimensional Testing

Parameter	Range	CMC ^{4,5} (±)	Comment
Angle ⁶	(0 to 360)°	1°	Optical comparator / MIL-STD-120
Radius ⁶	Up to 0.650 in	2000 µin	Optical comparator / MIL-STD-120
Threads ⁶ – Systems 21	(0.25 to 3.25) in (0.25 to 3) in Up to 4 in	N/A N/A 600 µin	Ring gages / ANSI/ASME B1.2 Plug gages / FED-STD-H28/20 Pitch micrometers / AS 8879
Linear ⁶	Up to 4 in Up to 6 in Up to 12 in Up to 24 in Up to 20 in	1000 µin 500 µin 1000 µin 1500 µin (12 + 38L) µin	Optical comparator / MIL-STD-120 Micrometer / MIL-STD-120 Calipers / MIL-STD-120 Height gage / MIL-STD-120 Gage maker micrometer / MIL-STD-120

III. Nondestructive Examination**Test Technology:****Test Method(s) ²:**

Ultrasonic Testing

- Contact Straight Beam
- Contact Angled Beam

API 6A, 17D;
 ASTM A388/A388M, E114, E127, E317, E428

Magnetic Particle Testing

- Bench (Visible, Fluorescent)

API 6A, 17D;
 ASTM A275/A275M, E709, E1444/E1444M;
 ASME V-Article 7

Liquid Penetrant

- Visible, Fluorescent

API 6A, 16C, 20E, 20F; ASME Section V Article 6;
 ASTM A962/A962M, E165/E165M, E120, E1418;
 EN473;

Test Technology:

Test Method(s) ²:

ISO 9712

***Note: Lab tests materials per the following specifications using the above test methods:**

ASTM A540/A540M; SAE J429; SAE J995

¹ *This accreditation covers testing performed at the main laboratory listed above, and at the two satellite laboratories indicated below:*

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

WN GLOBAL LABORATORY
3303 W. 12th Street
Houston, TX 77008
Phone: 713 230 2500

I. Mechanical Testing

Test Technology:

Test Method(s) ²:

Hardness

Rockwell (HRBW & HRC)

ASTM A370, E18, F606/F606M

Discontinuities

ASTM F788, F812; SAE J122, J123 ³ (cancelled)

Coating Thickness

ASTM B499

XRF (PMI)

ASTM E1476

II. Dimensional Testing

Parameter	Range	CMC ^{4,5} (±)	Comment
Angle ⁶	(0 to 360)°	1°	Optical comparator / MIL-STD 120
Radius ⁶	Up to 0.650 in	2000 µin	Optical comparator / MIL-STD 120
Threads ⁶ – Systems 21	(0.25 to 6.5) in (0.25 to 6.5) in Up to 7 in	N/A N/A 600 µin	Ring gages / ANSI/ASME B1.2 Plug gages / FED-STD-H28/20 Pitch micrometers
Linear ⁶	Up to 4 in Up to 6 in Up to 12 in Up to 18 in	1000 µin 500 µin 1000 µin 1500 µin	Optical comparator / MIL-STD 120 Micrometer / MIL-STD 120 Calipers / MIL-STD 120 Height gage / MIL-STD 120

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

WN GLOBAL LABORATORY
11987 FM 529
Houston, TX 77041
Phone: 832 456 9900

I. Mechanical Testing

Test Technology:

Test Method(s) ²:

Adhesion Testing

ASTM D3359

Cure Testing

ASTM D4752

Dry Film Thickness (DFT)

SSPC-PA2; ASTM D7091, ASTM B499

XRF Plating Thickness

ASTM B568

² When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

³ This laboratory's scope contains cancelled or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

⁴ 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 Uncertainty due to the behavior of the customer's device and to influences from the circumstances of the specific measurement

⁵ In the statement of CMC Uncertainty, L is the numerical value of the nominal length of the device measured in inches.

⁶ This test is not equivalent to that of a calibration.



Accredited Laboratory

A2LA has accredited

WN GLOBAL LABORATORY

Houston, TX

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017).



Presented this 9th day of June 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 929.01
Valid to June 30, 2024

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