



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CONNECTICUT METALLURGICAL, AN ACUREN COMPANY
100 Prestige Park Road
East Hartford, CT 06108
Brian Brown Phone: 314 770 0607

MECHANICAL

Valid To: July 31, 2024

Certificate Number: 4059.01

In recognition of the successful completion of the A2LA evaluation process (including compliance to R223 – Specific Requirements – GE Aviation S-400 Accreditation Program), accreditation is granted to this laboratory to perform the following tests on aerospace components, metals, metal fasteners, plastics, and polymers:

Test:

Test Method(s):

Mechanical Testing

Creep and Stress Rupture Testing
(RT-2000 °F, ≤ 12,000 lbs)

ASTM E139, E292

Elevated Temperature Tensile Testing
(RT-2000 °F, ≤ 60,000 lbs)

ASTM E21

Tensile Testing (≤ 60,000 lbs)

ASTM E8/E8M, A370, B557, F606/606M

Specimen Heat Treating (≤ 2000 °F)

CMI Procedure TP-13

Salt Spray Testing

ASTM B117

Rockwell Hardness Testing
(HRB, 15T, 30T, 45T, HRC, HRA, 15N, 30N, 45N)

ASTM E18, A370

Jominy Hardenability Testing

ASTM A255

Micro-Hardness Testing
(Knoop & Vickers (50-500g))

ASTM E384/E92

Metallographic Testing

Grain Size

ASTM E112, E930, E1181

Macrostructure

ASTM A604/A604M, E381, E340

Test:**Test Method(s):****Metallographic Testing (cont.)**

Case Depth/Hardness	ASTM E1077
Metallographic Preparation of Samples	ASTM E3
Photomicrography	ASTM E883
Inclusion Rating	ASTM E45; SAE J422
Micro-Etching of Metals	ASTM E407
Alpha Case on Titanium	GE P3TF19; PWA E142
Intergranular Attack	ASTM A262, Practice A and E
Weld Procedure and Operator Qualification	AWS D17.1; GE P8TF3, P8TF4, P8TF5, P8TF10, P8TF8; AMS 2680, 2681; PWA 15, 16, F-61, E-27, E-28, K-69, K-80, K-284
Bend Testing	ASTM E190, E290; AWS D17.1

Chemical Testing

Inductively Coupled Plasma Spectroscopy (Al, As, B, Be, Bi, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb, Ni, P, Pb, Sb, Si, Sn, Ta, Ti, V, W, Y, Zn, Zr)	ASTM E1479; CMI Procedures Chem. -01, -02, -03, -04, -05, -06, -07, -11, -21
LECO Combustion (C, N, O, S)	ASTM E1019, E1409
Identification of Polymers and Plastics by FTIR	ASTM E573, E1252, D3677





Accredited Laboratory

A2LA has accredited

CONNECTICUT METALLURGICAL, AN ACUREN COMPANY

East Hartford, CT

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 laboratory also meets the requirements of R223 – Specific Requirements – GE Aviation S-400 Accreditation Program. 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 15th day of July 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4059.01
Valid to July 31, 2024

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