



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CARPENTER TECHNOLOGY CORPORATION

101 West Bern St.

Reading, PA 19601

Bob Kemmerer Phone: 610 208 2576

MECHANICAL

Valid To: July 31, 2027

Certificate Number: 3155.01

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 satellite laboratory location listed below, to perform the following types of tests on metals, metal alloys, and metal fasteners:

Test

Test Methods

Mechanical Testing

Bend

ASTM E290 (Method A, B, C)

Charpy Impact (-112 to RT) °F

ASTM E23

Coefficient of Linear Thermal Expansion (CLTE)

ASTM E228

Fracture Toughness

ASTM E399

Hardness:

Brinell (10 mm – 3000 kg; 2.5 mm – 187.5 kg)

ASTM E10; EN ISO 6506-1

Rockwell (B, C, 15N, 30N, 15T, 30T)

ASTM E18; EN ISO 6508-1

Micro Knoop and Vickers (200, 300, 500) g

ASTM E92, E384

Macro Vickers (10 & 30) kg

ASTM E92

Stress Rupture / Creep Rupture (400 to 1600) °F

ASTM E139, E292

Tensile:

Elevated Temperature (400 to 1600) °F

ASTM E21

Room Temperature

ASTM E8/E8M; ISO 6892-1 (Method A1, A2)

Metallographic Evaluation

Decarburization

ASTM E1077

Delta Ferrite

AMS 2315

Grain Size

ASTM E930, E112, E1181; GE E50TF133; ISO 643

Inclusion Content / Microcleanliness

ASTM E45 (Method A, D, E);

ISO 4967 (Method A and B)

Intergranular Attack

ASTM A262 (Practice A, B, E),

G28 (Method A, B); ISO 3651-2 (Method A)

Macroetch

ASTM A604, E340, E381

Pitting / Crevice Corrosion

ASTM A923 (Method C), G48 (Method A)

Heat Treatment¹ (-100 to 2200) °F

AMS 2750²

Shalmet
116 Pinedale Industrial Road
Orwigsburg, PA 17961

Test

Test Methods

Mechanical Testing

Hardness:

Brinell (10 mm – 3000 kg; 2.5 mm – 187.5 kg)

ASTM E10

Rockwell (B, C)

ASTM E18

Tensile:

Room Temperature

ASTM E8/E8M

¹Heat Treatment Performed Only on Samples Prior to Testing. (Heat Treat Capability) including age, anneal, austenitize, bake, heat resistance, normalize, stress relieve, quench & temper.

²Please note that this is not a test method but rather a heat treatment specification covering the pyrometric requirements for sample and specimen preparation



Accredited Laboratory

A2LA has accredited

CARPENTER TECHNOLOGY CORPORATION

Reading, PA

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 4th day of June 2025.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3155.01
Valid to July 31, 2027

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