



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CARPENTER TECHNOLOGY CORPORATION¹

101 West Bern St.
Reading, PA 19601
Bob Kemmerer Phone: 610 208 2576

CHEMICAL

Valid To: July 31, 2019

Certificate Number: 3155.02

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 at the location listed above as well as the one satellite laboratory location listed below to perform the following tests on metals, metal alloys, and metal fasteners:

<u>Test</u>	<u>Test Methods</u>
<u>Spectroscopy</u> ²	
Atomic Absorption	
Flame	ASTM E1835
Graphite Furnace	ASTM E1184, E1770, E1834
Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP)	ASTM E1479, E2594
ICP Mass Spectroscopy	SOP-206.8500
Optical Emission Vacuum Spectrometric Analysis (OES)	
Carbon and Low-Alloy Steel	ASTM E415; SOP-079.621, -079.622
Stainless Steel	ASTM E1086
X-Ray Analysis	
Low-Alloy Steel	ASTM E1085
Stainless Steel	ASTM E572
Ni-Base Alloys	ASTM E2465
DSC – Determination of Gamma Prime Solvus Temperature	SOP 206.9100
<u>Combustion</u>	
Combustion (LECO) (C, N, O, S)	ASTM E1019
<u>Wet Chemical Analysis</u> ²	ASTM E350, E352, E353, E354, E1473

¹This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratory listed on page two.

²The testing attached to this footnote includes the following elements: Ag, Al, As, B, Be, Bi, C, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Gd, Ge, Hf, Hg, La, Mg, Mn, Mo, N, Nb, Nd, Ni, O, P, Pb, Pr, Pt, Re, S, Sb, Se, Si, Sn, Ta, Te, Ti, Tl, V, W, Y, Zn, Zr

Carpenter Focus Facility
22110 Thomas L. Hammons Road
Tanner, AL 35671

<u>Test</u>	<u>Test Methods</u>
<u>Spectroscopy</u> ³	
ICP Mass Spectroscopy	SOP-0F3.7116.206.8530
Optical Emission Vacuum Spectrometric Analysis (OES) ³	
Carbon and Low-Alloy Steel	ASTM E415
Stainless Steel	ASTM E1086
X-Ray Analysis ³	
Low-Alloy Steel	ASTM E1085
Stainless Steel	ASTM E572
Ni-Base Alloys	ASTM E2465
DSC – Determination of Gamma Prime Solvus Temperature	SOP-0F3.746.206.9200
<u>Combustion</u>	
Combustion (LECO) (C, N, O, S)	ASTM E1019

³The testing attached to this footnote includes the following elements: Ag, Al, As, B, Bi, C, Ca, Cd, Ce, Co, Cr, Cu, Fe, La, Mg, Mn, Mo, N, Nb, Ni, O, P, Pb, S, Sb, Se, Si, Sn, Ta, Te, Ti, Tl, V, W, Zn, Zr (XRF except B)





Accredited Laboratory

A2LA has accredited

CARPENTER TECHNOLOGY CORPORATION

Reading, PA

for technical competence in the field of

Chemical 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 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 8 January 2009*).



Presented this 29th day of August 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 3155.02
Valid to July 31, 2019

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