



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CARPENTER TECHNOLOGY CORPORATION<sup>1</sup>

101 West Bern St.  
Reading, PA 19601  
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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> <sup>2</sup>                                |                                       |
| 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;<br>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> <sup>2</sup>                       | ASTM E350, E352, E353,<br>E354, E1473 |

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

<sup>2</sup>The 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> <sup>3</sup>                                  |                       |
| ICP Mass Spectroscopy   | SOP-0F3.7116.206.8530 |
| Optical Emission Vacuum Spectrometric Analysis (OES) <sup>3</sup> |                       |
| Carbon and Low-Alloy Steel  | ASTM E415             |
| Stainless Steel   | ASTM E1086            |
| X-Ray Analysis <sup>3</sup>                                       |                       |
| 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            |

<sup>3</sup>The 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 29<sup>th</sup> 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.*