Accredited Laboratory

A2LA has accredited

CARPENTER POWDER PRODUCTS, INC.

Bridgeville, 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 December 2016.

President and CEO
For the Accreditation Council
Certificate Number 4164.01
Valid to March 31, 2019

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CARPENTER POWDER PRODUCTS
682 Mayer Street
Bridgeville, PA 15017
Amy Nagel Phone: 412-257-5109

CHEMICAL

Valid To: March 31, 2019 Certificate Number: 4164.01

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 test on powder metals and metal alloys (Iron, Cobalt, Nickel, and Titanium):

Test:	**Test Method(s):**
Spectroscopy	
Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP)[1]	ASTM E149
Glow Discharge (OES)[2]	BWI 10-42; ASTM E1086
Combustion	
Combustion (LECO) (C, N, O, S)	ASTM E1019
Combustion (LECO) (H)	ASTM E1447
Chemical	
Particle Size Distribution of Metal Powders by light scattering	ASTM B822
Dry Particle Size Distribution	ASTM B214
Determination of Flow Rate	ASTM B213
Apparent Density	ASTM B212

[1]The testing attached to this footnote includes the following elements: Al, As, B, Ca, Cd, Ce, Co Cr, Cu, Fe, Gd, Hf, La, Mg, Mn, Mo, Nb, Ni, P, Pt, Re, Se, Si, Sn, Ta, Ti, V, W, Y, Zn, Zr

[2]The testing attached to this footnote includes the following elements: Al, B, Co Cr, Cu, Fe, Mn, Mo, Nb, Ni P, Si, Ti, V, W

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8398 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org