



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

LUVAK, INC.
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Boylston, MA 01505
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CHEMICAL

Valid To: September 30, 2017

Certificate Number: 3183.01

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 Fe, Ni, Co, Cu, Ti, Al and Mg alloys, transition metals, refractory metals, solder and braze materials and various non-metallic materials:

<u>Test</u>	<u>Test Methods</u>
Chromatography Ion Chromatography (Br, Cl, F, NO ₃ , NO ₂ , PO ₄ , SO ₄)	ASTM D808, D4327
Combustion LECO Combustion Analysis (C, H, O, N, S)	ASTM E1019, E1409, E1447
Spectroscopy Atomic Absorption Flame (Ag, Be, Ca, Cd, Co, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Zn) Graphite Furnace (As, Bi, Cd, Pb, Sb, Se, Sn, Te, Tl) Direct Current Plasma Emission Spectroscopy (DCP) (Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cs, Cr, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Hg, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pd, Pr, Pt, Re, Rh, Rb, Ru, Sb, Sc, Se, Sm, Sn, Si, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, W, U, V, Y, Yb, Zn, Zr)	ASTM E663 (Withdrawn 1997) ¹ ASTM E1184 ASTM E1097, E2371
Miscellaneous Vacuum Hot Extraction (H)	ASTM E146 (Withdrawn 1989) ¹

¹This laboratory's scope contains a withdrawn or superseded method. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

LUVAK INC.

Boylston, MA

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 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 January 2016.

A handwritten signature in blue ink, appearing to read "J. C. Bennett".

Senior Director of Quality & Communications
For the Accreditation Council
Certificate Number 3183.01
Valid to September 30, 2017

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