



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Verichek Technical Services
3000 Industrial Blvd.
Bethel Park, PA 15102

Fulfills the requirements of

ISO/IEC 17025:2017

In the fields of

CALIBRATION and TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 15 July 2021

Certificate Number: L1190-1



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Verichek Technical Services

3000 Industrial Blvd.
Bethel Park, PA 15102
Evan T. Sivetz 412-854-1800

CALIBRATION AND TESTING

Valid to: **July 15, 2021**

Certificate Number: **L1190-1**

CALIBRATION

Chemical Quantities

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Optical Emission Spectroscopy	Matrix Dependent	See Note 2	ASTM E305

TESTING

Chemical

Specific Tests and/or Properties Measured ¹	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Positive Metal Identification	ASTM E415 ASTM E1476 ASTM E1916	Metals	Elemental Analysis (OES and x-Ray)
Positive Metal Identification	ASTM E1476 ASTM E1916	Metals	Sorting-Qualitative (OES and x-Ray)
Spark Testing	ASTM E1476 ASTM E1916	Metals	Sorting-Qualitative

Mechanical

Specific Tests and/or Properties Measured ¹	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Hardness Testing	(20 to 2 000) HV	ASTM A1038	Metals Hardness by Ultrasonic Contact Impedance

Mechanical

Specific Tests and/or Properties Measured ¹	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
	(20 to 999) HL	ASTM A956	Leeb Hardness of Metals
Coating Thickness	ASTM B568	Zinc on Steel	XRF
Retained Austenite Analysis	ASTM E975	Steel	XRD

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. The uncertainty of measurement varies depending upon the element (matrix) involved. Uncertainty estimates are available upon request.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. L1190-1.



R. Douglas Leonard Jr., VP, PILR SBU

