



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Outokumpu Stainless USA, LLC
One Steel Drive
Calvert, AL 36513

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

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 June 2021

Certificate Number: AT-2477



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

Outokumpu Stainless USA, LLC

One Steel Drive
Calvert, AL 36513

Frank Snow frank.snow@outokumpu.com 251 829 3375

TESTING

Valid to: **June 15, 2021**

Certificate Number: **AT-2477**

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Susceptibility to Intergranular Corrosion	ASTM A262 Practice A and Practice E	Stainless Steels	Light Microscope
Grain Size	ASTM E112 Comparison Procedure		Light Microscope
Ductility/Bend	ASTM E290, ASTM A370		Hydraulic Press
Rockwell Hardness (HRB and HR30T)	ASTM E18, ASTM A370		Rockwell Hardness Tester
Tensile Strength: Reduction of Area	ASTM E8/E8M, ASTM A370		Point Micrometer and Tensile Tester
Tensile Strength: Ultimate Tensile, Yield Strength, Elongation	ASTM E8/E8M, ASTM A370		Tensile Tester
Inclusion Content Determination	ASTM E45 Method A		Light Microscope
Surface Roughness/ Finish (Ra)	ASTM A480/A480M, SOP-PTL-2001		Profilometer
Determining Volume Fraction by Systematic Manual Point Count	ASTM E562-19		Light Microscope
Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	ASTM A923-14: Methods A & C		Light Microscope, pH Meter, Thermometer, Balance and Caliper.



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Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Chemical Composition: Cr, Ni, Mo, Mn, Si, Cu, P, V, Ti	ASTM E572, ASTM A751	Stainless Steels	X-Ray Fluorescence Spectrometers
Chemical Composition: Cu, Si, P	ASTM E1086, ASTM A751		Spark Optical Emission Spectrometer
Chemical Composition: C, S, O, N	ASTM E1019, ASTM A751		Combustion Gas Analyzers

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2477.



R. Douglas Leonard Jr., VP, PILR SBU

