

ATI FLAT ROLLED PRODUCTS 1300 Pacific Avenue Natrona Heights, PA 15065-1147 Shawn Cooper Phone: 724-226-6498 <u>shawn.cooper@atimetals.com</u>

MECHANICAL

Valid To: January 31, 2025

Certificate Number: 3109.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests <u>on armor, stainless steel, nickel-base, cobalt-base and titanium sheet, strip and plate products:</u>

<u>Test:</u>	<u>Test Method(s)¹:</u>
Bending	ASTM E290; ISO 7438
Hardness Brinell Hardness (3000 kg)	ASTM E10
Rockwell Hardness (B, C, 15N, 15T, 30N, 30T)	ASTM E18
Metallographic Evaluation Grain Size	ASTM E112 (Comparison Method only)
Inclusions	ASTM E45 Method A; ISO 4967
Intergranular Attack	IGA/M22
Macro-etch	ASTM E340
Microhardness Knoop: 200 g, 500 g	ASTM E92, E384
Vickers: 200 g to 10 kg	
Corrosion Testing Pitting and Crevice Corrosion	ASTM A923 Practices A and C, A1084, G48
Salt Spray	ASTM B117
Susceptibility to Stress Corrosion Cracking	ASTM G30

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Test:

Test Method(s)1:

Corrosion Testing (continued) Susceptibility to Intergranular Corrosion	ASTM G28
Susceptibility to Intergranular Attack	ASTM A262 Practices A, B, C, and E; ISO 3651-1, ISO 3651-2; SEP 1877
Stress Rupture	ASTM E139
Tensile Test	ASTM E8/E8M; EN-ISO 6892-1
Lab Heat Treatment	AMS 2750
Surface Roughness	ASME B46.1 Section 3; ISO 4287
Cup Test	EN-ISO 20482
Alpha Case	Int. Procedure: "Alpha Case"; EN 2003-9
Elevated Temperature Tensile	ASTM E21

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

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A2LA has accredited

ATI FLAT ROLLED PRODUCTS

Natrona Heights, PA

for technical competence in the field of

Mechanical Testing

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



Presented this 20th day of December 2022.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 3109.01 Valid to January 31, 2025



ATI FLAT ROLLED PRODUCTS¹ 1300 Pacific Avenue Natrona Heights, PA 15065-1147 Shawn Cooper Phone: 724-226-6498 Shawn.cooper@atimetals.com

CHEMICAL

Valid To: January 31, 2025

Certificate Number: 3109.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to the laboratory above, as well as the laboratories below to perform the following tests on <u>armor, stainless steel</u>, <u>nickel-base</u>, <u>cobalt-base</u> and <u>titanium sheet</u>, <u>strip and plate products</u>:

<u>Test:</u>	Test Method(s) ² :
Spectroscopy Inductively Coupled Plasma (ICP) (Al, B, Cr, Cu, Fe, Mn, Mo, Ni, Si, Sn, V, Y, Zr)	ASTM E1479
Graphite Furnace Atomic Absorption (GFAA) (Ag, Bi, Cd, Pb, Se, Sn, Te, Tl)	ASTM E1184
Optical Emission Spectroscopy (OES) (Al, B, Sn, Ta, Ti)	ASTM E1086, E3047
X-Ray Fluorescence (XRF) Stainless Steels: (Al, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Si, Sn, Ta, Ti, V, W, Zr)	ASTM E572
Nickel Alloys: (Al, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Si, Sn, Ta, Ti, V, W, Zr)	ASTM E2465
Cobalt Alloys: (Al, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Si, Sn, Ta, Ti, V, W, Zr)	ASTM E2465
Elemental Analysis Combustion Elemental Analysis Carbon and Sulfur by Infrared Nitrogen, Oxygen, and Hydrogen by Inert Fusion- LECO (C, H, N, O, S)	ASTM E1019, E1447

¹*This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratories listed below.*

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ATI FLAT ROLLED PRODUCTS Route 981 North Latrobe, PA 15650

Test:

Test Method(s)²:

Spectroscopy	
Optical Emission Spectroscopy (OES)	ASTM E1086,
(Al, B, Sn)	E3047
X-Ray Fluorescence (XRF)	
Stainless Steels:	ASTM E572
(Al, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Si, Ti, V, W)	
Nickel Alloys:	ASTM E2465
(Al, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Si, Ti, V, W)	
Elemental Analysis	
Combustion Elemental Analysis Carbon and Sulfur by Infrared Nitrogen by	ASTM E1019
Inert Fusion- LECO	
(C, N, O, S)	

ATI FLAT ROLLED PRODUCTS 100 River Road Brackenridge, PA 15014

<u>Test:</u>	Test Method(s) ² :
Spectroscopy Optical Emission Spectroscopy (OES) (Al, B, Sn)	ASTM E1086, E3047
X-Ray Fluorescence (XRF) Stainless Steels: (Al, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Si, Sn, Ti, V, W)	ASTM E572
Nickel Alloys: (Al, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Si, Sn, Ti, V, W)	ASTM E2465
Elemental Analysis Combustion Elemental Analysis Carbon and Sulfur by Infrared Nitrogen and Oxygen by Inert Fusion- LECO (C, N, O, S)	ASTM E1019

² When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories.*

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A2LA has accredited

ATI FLAT ROLLED PRODUCTS

Natrona Heights, PA

for technical competence in the field of

Chemical Testing

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



Presented this 20th day of December 2022.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 3109.02 Valid to January 31, 2025



ATI FLAT ROLLED PRODUCTS 1357 East Rodney French Blvd. New Bedford, MA 02742 David Shaner Phone: 508 984 2256 Fax: 508 984 8904

MECHANICAL

Valid To: January 31, 2025

Certificate Number: 3109.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>Stainless Steels</u>, <u>Titanium</u>, <u>Cobalt</u>, <u>Zirconium</u>, <u>Carbon Steels</u>, <u>and Nickel Alloys</u>:

<u>Test:</u>	<u>Test Method(s)¹:</u>
Bending	ASTM E290
Metallographic Evaluation	
Grain Size	ASTM E112 (Comparison Method only)
Susceptibility to Intergranular Attack	ASTM A262 Practice E; ISO 3651-2 Method A
Corrosion Testing	
Crevice Corrosion	ASTM G48
Microhardness	
Vickers (100 gf, 300 gf, 500 gf, 1000 gf)	ASTM E384, E92
Surface Roughness	ASME B46.1 Section 3; LP-04; ISO 4287
Tensile Test (5000 lbs Flat Specimens)	ASTM E8/E8M; ISO 6892-1
Lab Heat Treatment	AMS 2750

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

(A2LA Cert. No. 3109.03) 12/20/2022

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A2LA has accredited

ATI FLAT ROLLED PRODUCTS

New Bedford, MA

for technical competence in the field of

Mechanical Testing

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



Presented this 20th day of December 2022.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 3109.03 Valid to January 31, 2025

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



ATI FLAT ROLLED PRODUCTS HOLDINGS, LLC 695 Ohio Street Lockport, NY 14094 Shawn Cooper Phone: 724-226-6498 Shawn.cooper@atimetals.com

CHEMICAL

Valid To: January 31, 2025

Certificate Number: 3109.04

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to the laboratory to perform the following tests on <u>nickel-base</u>, <u>cobalt-base</u> and <u>steel alloy products</u>:

Test Method(s) ² :
E1086
ASTM E322,
E572, E1085
ASTM E2465
ASTM E1019

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

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5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org





A2LA has accredited

ATI FLAT ROLLED PRODUCTS HOLDINGS, LLC

Lockport, New York

for technical competence in the field of

Chemical Testing

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



Presented this 30th day of October 2023.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 3109.04 Valid to January 31, 2025