
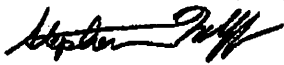



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	<h1>Certificate of Test</h1>		 <small>Stephen Wolff - Director, Corporate Quality Assurance</small>
	Mill Information Cert Number 0124470-00 Sales Order 50-123-061 Cert Date Jan-21-2014		Customer Information <div style="text-align: center;">  </div>

981775

Material Information

"ATI 316/316L" STAINLESS STEEL
 PMP HOT ROLLED PLATE ANNEALED PICKLED COMMERCIAL CUT EDGE

SM/US/PG REV 17 - 316/316L	DIN EN 10204:2005 3.1 CERTIFICATE
AMS 5524L	AMS 5507G
NACE MR0175/ISO 15156-3:10/2009	ASTM-A-262-13 PRACTICE E
ASTM-A-480-13B	NACE MR0103:2007
ASTM-A-240-13C	ASME-SA-240 ED 2013
UNS S31600	UNS S31603




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Piece Information

	Gauge	Width	Length					Total Wt
Pcs	(In)	(In)	(In)	Heat #	Piece ID	Section Id	Lot #	(lbs)
Item: 009		Cust-Id:		Govt-Contract-#:			Govt-DO-Rating:	
		Cust-Job:		ScheduleB:				
1	2.7500	79.0000	140.0000	981775	AB33464	---	430529	8867

Chemistry Testing

Element	Requirements		Final Heat Analysis	
	Min	Max	981775	Loc
C	---	.030	.022	MI
MN	---	2.00	1.52	MI
P	---	.040	.031	MI
S	---	.030	.001	MI
SI	---	.75	.50	MI
CR	16.00	18.00	16.22	MI
NI	10.00	14.00	10.04	MI
MO	2.00	3.00	2.04	MI
CU	---	.75	.45	MI
N	---	.10	.06	MI

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Chemistry Testing

Allegheny Ludlum performs chemical analysis by the following techniques:
 C, S by combustion/infrared; N, O, H by inert fusion/thermal conductivity;
 Mn, P, Si, Cr, Ni, Mo, Cu, Cb, Co, V, by WDKRF; Pb, Bi, Ag by GFAA;
 B by OES; Al and Ti ($\geq 0.10\%$) by WDKRF, otherwise by OES.

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981775 - Material was produced by EF melting with AOD refining.

Mechanical Testing

		LOT 430529	
Condition:		ANNEALED	
Direction:		TRANSVERSE	
Temperature:		ROOM TEMP	
Spec:			
Test Limit	Units	Result	Loc
YIELD 0.2%	psi	35800.	PE
TENSILE	psi	77500.	PE
ELONGATION	%	60.	PE
RED OF AREA	%	77.	PE
HARDNESS	---	158. HBW	TC

When hardness is measured using the Brinell scale, the indentation measuring device is Type A.

Mechanical Property Requirements

Condition:		ANNEALED	
Direction:		TRANSVERSE	
Temperature:		ROOM TEMP	
Spec:			
Test Limit	Units	Min	Max
YIELD 0.2%	psi	30000.	---
TENSILE	psi	75000.	100000.
ELONGATION	%	45.	---
RED OF AREA	%	---	---
HARDNESS	---	---	217. HBW



ATI Allegheny Ludlum

Certificate of Test

Stephen Wolfe - Director, Corporate Quality Assurance

Mill Information

Customer Information

Cert Number 0124470-00
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Cert Date Jan-21-2014

NEW WEST METALS INC.

Corrosion Testing

Test ID	Result Name	Test Result	Wt Loss	Units	Visual Exam	Pit Depth	Units	Bend	Loc	Requirements
LOT 430529	A-262 E/SCR A	STEP	---	---	---	---	---	---	TC	---

Certification Statements

Material was solution annealed at 1900F (1038C) minimum for a time commensurate with thickness and rapidly cooled with air or water.

Allegheny Ludlum does not use mercury in the testing or production of its products.

Material is of USA melt and manufacture.

No welds/weld repairs performed.

Knowingly and willfully recording any false, fictitious or fraudulent statement or entry on this document may be punished as a felony under Federal Statutes, including Federal Law, Title 18, Chapter 47.

DIN EN 10204:2005 - 3.1 Allegheny Ludlum is approved as a manufacturer according to Pressure Equipment Directive PED 97/23/EC.

Allegheny Ludlum Corporation has an active radioactive testing program which monitors incoming raw materials as well as melt samples for evidence of radioactivity. Raw material or melt showing radiation levels above normal background are not permitted to be used.

Quality system certified according to Pressure Equipment Directive 97/23/EC, Annex I, Paragraph 4.3 by TUV SUD, Industrie Service GmbH, (Notified Body 0036).

Material supplied in accordance with ISO 9001-2008, Certificate No. 951 03 2023.

DIN EN 10204:2005 3.1 Certificate

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General Statements

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS

- MI = ATI-ALLEGHENY LUDLUM; 950 Tenth Street; Midland, PA 15059
- PE = PRODUCT EVALUATION SYSTEMS; 637 Donohoe Road; Latrobe, PA 15650
- TC = ATI-ALLEGHENY LUDLUM; 1300 Pacific Avenue; Natrona Heights, PA 15065

WARNING: Processing that makes fumes, dust, or solutions may cause lung disease. Please see MSDS for further information which has been supplied to your Purchasing Department. For an additional copy, please refer to our web site at www.atimetals.com/businesses/business-units/ludlum/Pages/msds.aspx.

For access to online Certifications of Test, please register at www.aicextra.com.

The above is a true copy of the data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Allegheny Ludlum's order acknowledgement. This certificate of Test may not be reproduced except in full without the written authorization of the company.

ATI Allegheny Ludlum's website contains a listing of material produced, general technical and contact information, and current quality and company accreditations including but not limited to ISO-9001, AS-9100, Nadcap, and ISO/IEC 17025. Please visit us at www.alleghenyludlum.com.