
 ATI Flat Rolled Products 500 Green Street Washington, PA 15301	Certificate of Test		 Noreen DeFerrari - Sr. Manager, Quality
	Mill Information		Customer Information
	Cert Number 0183694-00 Sales Order 50-068-643 Cert Date Sep-24-2018	PO 0164157-TEM PO Date Jun-21-2018	

Sold to:	Ship to:
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Material Information

"AL-6XN" STAINLESS STEEL PMP HOT ROLLED PLATE ANNEALED PICKLED COMMERCIAL CUT EDGE	
ASTM-B-688-96 R2014 ASME-SB-688 ED 2017 NACE MR0103/ISO 17495-1:2016 ASME-SA-240 ED 2017	ASTM-A-240-17 NACE MR0175/ISO 15156-3:2015 UNS N08367

Piece Information

	Gauge	Width	Length					Total Wt
Pcs	(in)	(in)	(in)	Heat #	Piece ID	Section Id	Lot #	(lbs)
Item: 001	Cust-Id: 0011240		Govt-Contract-#:		Govt-DO-Rating:			
	Cust-Job:		ScheduleB:					
1	.2500	60.0000	274.1250	854930	CE83128	---	479719	1292



Chemistry Testing

Element (wt %)	Requirements		Final Heat Analysis	
	Min	Max	854930	Loc
C	---	.030	.017	BN
MN	---	2.00	.37	BN
P	---	.040	.022	BN
S	---	.030	< .001	BN
SI	---	1.00	.32	BN
CR	20.00	22.00	20.88	BN
NI	23.50	25.50	23.73	BN
MO	6.00	7.00	6.14	BN
CU	---	.75	.27	BN
N	.18	.25	.22	BN
FE	---	---	BAL	--

HEAT # 854930



TRANSFER # 0550202115

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Chemistry Testing

ATI Flat Rolled Products performs chemical analysis by following techniques for testing locations TC, BN, & LO:
C, S by combustion/infrared; N, O, H by inert fusion/thermal conductivity;
Mn, P, Si, Cr, Ni, Mo, Cu, Cb, Co, V, by WDXRF; Pb, Bi, Ag by GFAA;
B by OES; Al and Ti ($\geq 0.10\%$) by WDXRF, otherwise by OES.

854930 - Material was produced by EF melting with AOD refining.
USA melt and manufacture



Mechanical Testing

		LOT 479719	
Condition:		ANNEALED	
Direction:		TRANSVERSE	
Temperature:		ROOM TEMP	
Spec:			
Test Limit	Units	Result	Loc
YS 0.2% OFFSET	psi	55100.	TC
TENSILE	psi	108300.	TC
ELONG. IN 2"	%	46.	TC
RED OF AREA	%	63.	TC
HARDNESS	---	179. 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
YS 0.2% OFFSET	psi	45000.	---
TENSILE	psi	95000.	---
ELONG. IN 2"	%	30.	---
RED OF AREA	%	---	---

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Mechanical Property Requirements

Condition:		ANNEALED	
Direction:		TRANSVERSE	
Temperature:		ROOM TEMP	
Spec:			
Test Limit	Units	Min	Max
HARDNESS	---	---	240. HBW

Certification Statements

Grade verification was performed spectroscopically.

ATI Flat Rolled Products does not use mercury in the testing or production of its products.

No welds/weld repairs performed.

DIN EN 10204:2005 - ATI Flat Rolled Products is approved as a manufacturer according to Pressure Equipment Directive PED 2014/68/EU.

Quality System certified according to Pressure Equipment Directive 2014/68/EU, Annex I, Paragraph 4.3 by TUV SUD, Industrie Service GmbH, (Notified Body 0036)

Material was solution annealed at 2025F (1107C) minimum for a time commensurate with thickness and rapidly cooled with air or water.

EN 10204:2005 3.1 Certificate.

General Statements

The Finishing Location for ALL PIECES is ATI-FRP
 The Shipping Location is ATI-FRP WASHINGTON, PA

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS

BN = ATI FLAT ROLLED PRODUCTS; 100 River Road; Brackenridge, PA 15014

TC = ATI FLAT ROLLED PRODUCTS; 1300 Pacific Avenue; Natrona Heights, PA 15065

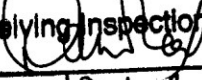
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WARNING: Processing that makes fumes, dust, or solutions may cause lung disease. Please see Safety Data Sheet for further information which has been supplied to your Purchasing Department. For an additional copy, please refer to our website at:
www.atimetals.com/Products/ati-sds

For access to online Certifications of Test, please register at MyATI.ATIMetals.com

This Certified Material Test Report is a true representation of the data on file. The reported results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products order acknowledgement. This Certificate of Test may not be reproduced except in full without the written authorization of the company.

ATI Flat Rolled Products website contains 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.atimetals.com

Receiving Inspection
 By: 
 Date: 10-1-18