



**ATI**  
Flat Rolled Products

500 Green Street  
Washington, PA 15301

# Certificate of Test

*Noreen DeFerrari*

Noreen DeFerrari - Sr. Manager, Quality

## Mill Information

Cert Number 0183106-00  
Sales Order 50-068-636  
Cert Date Sep-13-2018

## Customer Information

Name ROLLED ALLOYS INC  
PO 0164153-TEM  
PO Date Jun-21-2018

**Sold** ROLLED ALLOYS INC  
**to:** PO BOX 310  
TEMPERANCE, MI 48182

**Ship** ROLLED ALLOYS INC.  
**to:** 125 WEST STERNS ROAD  
TEMPERANCE, MI 48182

## 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: 002	Cust-Id: 0011240		Govt-Contract-#:		Govt-DO-Rating:			
	Cust-Job:		ScheduleB:					
1	.2500	96.0000	269.9375	854930	CE81483	---	479454	2036

## 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



TRACER # 0549042US



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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 BF melting with AOD refining.  
USA melt and manufacture

### Mechanical Testing

		LOT 479454	
Condition:		ANNEALED	
Direction:		TRANSVERSE	
Temperature:		ROOM TEMP	
Spec:			
Test Limit	Units	Result	Loc
YS 0.2% OFFSET	psi	57300.	TC
TENSILE	psi	108600.	TC
ELONG. IN 2"	%	50.	TC
RED OF AREA	%	74.	TC
HARDNESS	---	185. 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

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.

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](http://www.atimetals.com/Products/ati-sds)

For access to online Certifications of Test, please register at [MyATI.ATIMetals.com](http://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](http://www.atimetals.com)

RECEIVED  
9-18-18

Receiving Inspection

By: *Don Deary*

Date: 9-18-18