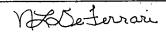


Certificate of Test



Noreen DeFerrari - Sr. Manager, Quality

Customer Information

Mill Information
Cert 0183106-00

Name ROLLED ALLOYS INC

Sales 50-068-636 Order 50-068-636 Cert Sep-13-2018

PO 0164153-TEM PO Jun-21-2018

Sold ROLLED ALLOYS INC

500 Green Street Washington, PA 15301

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: 00	2 Cust-le	d: 0011240 b:		G	ovt-Contract-#: ScheduleB:	· (Sovt-DO-Rating:	
1	.2500	96.0000	269.9375	854930	CE81483		479454	2036

Chemistry Testing

Element	Requir	ements	Final Heat Analysis		
(wt %)	Min	Max	854930	Loc	
С		.030	.017	BN	
MN		2.00	.37	BN	
Р		.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	
МО	6.00	7.00	6.14	BN	
CU		.75	.27	BN	
N	.18	.25	.22	BN	
FE			BAL		

HEAT # 854930

TRACER # 0549042US



Certificate of Test

MSSeferrari

Noreen DeFerrari - Sr. Manager, Quality

Mill Information Customer Information

Cert Number 0183106-00 Name ROLLED ALLOYS INC

 Sales Order
 50-068-636
 PO 0164153-TEM

 Cert Date
 Sep-13-2018
 PO Date
 Jun-21-2018

500 Green Street Washington, PA 15301

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 (>=0.10%) by WDXRF, otherwise by OES.

854930

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

Mechanical Testing

	LOT 479454		
C	ANNEALED		
	TRANSVERSE		
Tem	ROOM TEMP		
Test Limit	Units	Result	Foc
YS 0.2% OFFSET	psi	57300.	тс
TENSILE	psi	108600.	тс
ELONG. IN 2"	%	50.	тс
RED OF AREA	%	74.	тс
HARDNESS		185. HBW	тс

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

Mechanical Property Requirements

(Condition:	ANNEALED.	ANNEALED		
	Direction:	TRANSVERSE	TRANSVERSE		
Ten	nperature:	ROOM TEMP			
	Spec:				
Test Limit	Units	Min	Max		
YS 0.2% OFFSET	psi	45000.			
TENSILE	psi	95000.			
ELONG. IN 2"	%	30.			
RED OF AREA %					



500 Green Street

Washington, PA 15301

Certificate of Test

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Noreen DeFerrari - Sr. Manager, Quality

Mill Information **Customer Information** Cert 0183106-00 Name ROLLED ALLOYS INC

Sales 50-068-636 PO 0164153-TEM

Cert Date Jun-21-2018 Sep-13-2018

Mechanical Property Requirements

	Condition:	ANNEALED			
	Direction:	TRANSVERSE			
Те	Temperature:				
	Spec:				
Test Limit	Test Limit Units		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.

, PA

EN 10204:2005 3.1 Certificate.

General Statements

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

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

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

