



522059-01-2.0

 ATI Flat Rolled Products	<h1>Certificate of Test</h1>		 Stephen Wolff - Director, Corporate Quality Assurance
	Mill Information		Customer Information
500 Green Street Washington, PA 15301	Cert Number 0133277-00	Name CORROSION MATERIALS INC	
	Sales Order 50-074-150	PO PO0035284	
	Cert Date Aug-28-2014	PO Date Jul-14-2014	

Sold CORROSION MATERIALS INC to: 2262 GROOM ROAD BAKER, LA 70714	Ship CORROSION MATERIALS to: 2262 GROOM ROAD BAKER, LA 70714
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Material Information

"ATI 400" NICKEL ALLOY PMP HOT ROLLED PLATE ANNEALED PICKLED COMMERCIAL CUT EDGE	
ASME-SB-127 ED 2013 QQ-N-281D & AM 2 CLASS A FORM 6	ASTM-B-127-05 R2009 UNS N04400

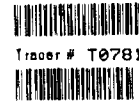
Piece Information

Pcs	Gauge (in)	Width (in)	Length (in)	Heat #	Piece ID	Section Id	Lot #	Total Wt (lbs)
Item: 005	Cust-Id:	Govt-Contract-#:			Govt-DO-Rating:			
	Cust-Job:	Schedule B:						
1	2.0000	96.0000	116.0000	522059-01	CC69158	---	438418	7318

Chemistry Testing


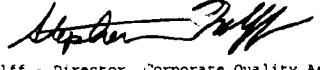
Element (wt %)	Requirements		Final Heat Analysis	
	Min	Max	522059-01	Loc
C	---	.2	.1	TC
MN	---	2.00	1.49	BN
P	---	.02	.01	BN
S	---	.015	< .001	TC
SI	---	.50	.16	BN
NI	63.00	70.00	64.64	BN
AL	---	.5	.2	BN
CU	28.0	34.0	32.0	BN
CO	---	---	.016	BN
SN	---	.006	.001	BN
PB	---	.006	.001	TC
FE	---	2.50	1.32	BN
ZN	---	.02	< .01	TC
NCO	63.0	70.0	64.6	XX

Heat # 522059-01



Tracer # T0781112



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Chemistry Testing

ATI Flat Rolled Products performs chemical analysis by following techniques for testing locations TC, BN, MI, & 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.

52205901 - Material was produced by EP melting, AOD refining, and ESR.

NCO = Ni + Co

Mechanical Testing

		LOT 438418	
Condition:		ANNEALED	
Direction:		TRANSVERSE	
Temperature:		ROOM TEMP	
Spec:			
Test Limit	Units	Result	Loc
YIELD 0.2%	psi	29800.	TC
TENSILE	psi	77500.	TC
ELONGATION	%	52.	TC
RED OF AREA	%	82.	TC
HARDNESS	---	135. HBW	TC

Heat # 522059-01




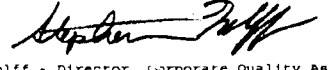
Tracer # T0781112



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	28000.	---
TENSILE	psi	70000.	---
ELONGATION	%	35.	---
RED OF AREA	%	---	---

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	Cert Date Aug-28-2014	PO Date Jul-14-2014	

Mechanical Property Requirements

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

Heat #
522059-01
 Tracer #
T0781112

Certification Statements

Material was solution annealed at 1350F (732C) minimum for a time commensurate with thickness.

ATI Flat Rolled Products 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.

Except as noted, this material has been manufactured and tested in accordance with the listed specifications and test results and operations performed by ATI FRP or Approved Suppliers / Subcontractors are in compliance with the specifications and order requirements.

EN 10204:2005 3.1 Certificate.

General Statements

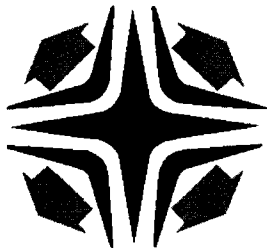
TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS
 BN = ATI FLAT ROLLED PRODUCTS; 100 River Road; Brackenridge, PA 15014
 TC = ATI FLAT ROLLED PRODUCTS; 1300 Pacific Avenue; Natrona Heights, PA 15065
 XX = CALCULATED

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/business/ATIFlatRolledProducts/Tools/Pages/Safety-and-MSDS.aspx

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



CORROSION MATERIALS

2262 Groom Road, Baker Louisiana 70714

(800) 535-8032 / (225) 775-3675

Quality Control FAX (225) 778-6489

ISO 9001-2000 Certified.
ISO Registered Since 1993

CERTIFICATE OF CONFORMANCE

Date: October 31, 2014

Customer: ROLLED ALLOYS C

P.O. #: 044271ME

CMI Order#: SO115655-B

Item: 2" THK PLATE X 15.2500" OD

Heat#: 522059-01

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This document is to certify that the item(s) provided on the above referenced purchase order are composed of Alloy 400, as traceable to the enclosed Material Test Report. The material can be marked with the above information.

The above information is true and accurate as certified by the person stated below.

Certified by: Tom Holstein

Title: Quality Control Coordinator



CORROSION MATERIALS

5092 Steadmont, Houston Texas 77040
(800) 455-2276 / (713) 939-0364
Quality Control FAX (713) 939-6582

ISO 9001-2008 Certified
ISO Registered Since 1993

CERTIFICATE OF CONFORMANCE

Date: October 29, 2014
Customer: ROLLED ALLOYS CANADA
P.O. #:
CMI Order #:
Item: 2" THK X 15.75" OD
Heat #: 522059-01
Comments: Reported Hardness 135 HBW

*Must accompany
material
MTR to have
same properties
as sample.*

This document certifies that the item(s) provided on the above referenced purchase order, meets the hardness requirement in accordance to the NACE Specification MR0175/ISO 15156-3:2003/Cor.2:2005(E), specifically listed in the notes of Table A.13* in Section A.4.2 for alloy UNS N04400. This certificate only recognizes the hardness requirement for Alloy UNS N04400 and excludes all other requirements under this specification.

The above information is true and accurate as certified by the person stated below.

Certified by: Tom Holstein

Tom Holstein

Title: QC Coordinator

* Table A.13 notes require a maximum hardness of 35 HRC for alloy UNS N04400 in the annealed condition.