

**NOTICE OF SHIPMENT/  
PACKING LIST**



AL 6168-8 417

8318

**CERTIFICATE OF TEST**

CUST. ORD. NO. & DATE		CUST. CODE		FINISHING LOCATION		SHIPPER NO.		PRODUCT CODE		*** ENGLISH ***		MILL ORDER NUMBER		DATE SHIPPED	
9417		05/12/17		A464105		LOUISVILLE, OH		542905		13010105060000		31-057-041		08/21/17	
FORMS DISTRIBUTION		REPEAT ORDER		DO RATE		PRI-ORITY		GOV'T CONTRACT		MAT'L.		SHIPPING LOCATION		INVOICE	
SOLD TO → 1 SHIP TO → SPEC →		09560-0		36						1340		INDIANAPOLIS		244093	
SOLD TO		PRIME		SEC.						SHIP TO				399	
		DSO		DSO											
		10													

GRADE AND SPECIFICATIONS CARRIER - SUNTECK TRANSPORTATION  
 "ATI 400" NICKEL ALLOY SHEET C R CUT LENGTHS ANNEALED #3/#4 POLISH 3 EDGE (PWA 300 REV BP) (QQ-N-281D & AM 2 CLASS A FORM 4) (AMS 4544H) (ASTM-B-127-05 R2014) (ASME-SB-127 ED 2015) (UNS N04400) (NACE MR0175/ISO 15156-3:2015) (F-14, F-17, F-22, F-23, F-MASTER) (DIN EN 10204:2005 3.1 CERTIFICATE) (S-1000 01/19/2017) (S-400 DTD 06/03/2016) (HTM-7420 PO CLAUSES REV 2) (WNR 2.4360) (12/28/16 EXCEPTIONS HTM-7420) (ROLLS ROYCE SABRE) (CONTROLLED TO PWA LCS REQUIRMENTS) (NACE MR0103/ISO 17495-1:2016)

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/	CD	SKID #
001A	9	48./125/120.	525445	AAB89557-D	G216684	2455	345	2110		895325		
	9	48./125/120.	525445	AAB89557-E	G216684	2455	345	2110		895331		
	9	48./125/120.	525445	AAB89557-F	G216684	2455	345	2110		895334		
	9	48./125/120.	525445	AAB89557-G	G216684	2455	345	2110		895336		
	6	48./125/120.	525445	AAB89557-H	G216684	1760	355	1405		895337		
C CUST IDENTITY 400.125X48X120												
5 SKIDS						11580	1735	9845				

TYPE	HEAT/TEST (WT %)	--C--	--MN--	--P--	--S--	--SI--	--NI--	--AL--	--CU--	--TI--	--CO--	--SN--	--PB--
HEAT	525445	.12	1.46	.005	.0001	.11	63.67	.20	32.1	.01	.02	.001	.001
TEST LOCATION		LO	LO	LO	LO	LO	LO	LO	LO	LO	LO	TC	TC
		--FE--	--ZN--										
HEAT	525445	1.73	.001										
TEST LOCATION		LO	TC										

MELT METHOD: EF + AOD

ITEM	TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"	% R/A	HARDNESS	BEND	ASTM GRAIN SIZE	HARDENABILITY
001A	G216684	T 39200.	84400.	44. #	NR	76.HRBW	T PASS NR	NR	NR
		T 39700.	84200.	42. #		77.HRBW			
TEST LOCATION		TC	TC	TC		TC	TC		

PAGE 01 - CONTINUED ON PAGE 02

08/21/17 15:34:46

**CONSIGNEE.** Please Note—This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

**WARNING**  
 Safety Data Sheets for this product are available on our website, [www.ATImetals.com](http://www.ATImetals.com). A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Noreen Deferrari  
 Sr. Manager Quality, Corporate Quality Assurance

**NOTICE OF SHIPMENT/  
PACKING LIST**



AL 6168-8 417

8318

**CERTIFICATE OF TEST**

CUST. ORD. NO. & DATE		CUST. CODE		FINISHING LOCATION		SHIPPER NO.		PRODUCT CODE		*** ENGLISH *** MILL ORDER NUMBER		*** DATE SHIPPED	
9417		05/12/17		A464105		LOUISVILLE, OH		542905		13010105060000		31-057-041	
FORMS DISTRIBUTION				REPEAT ORDER		DO RATE		GOV'T CONTRACT		MILL ORDER NUMBER		INVOICE	
SOLD TO → 1		SHIP TO →		SPEC →		09560-0		36		1340		INDIANAPOLIS	
SOLD TO				PRIME		SEC.				SHIP TO		244093	
				DSO		DSO						399	
				10									

GRADE "ATI 400" NICKEL ALLOY SHEET C R CUT LENGTHS ANNEALED #3/#4 POLISH 3 EDGE CARRIER - SUNTECK TRANSPORTATION

\* Y.S. BY 0.2% OFFSET METHOD  
P&W E-25  
TRAN BEND  
2.

ITEM TEST NO  
001A G216684

TEST LOCATION TC  
# ELONG AT FRACTURE

NR = DATA NOT REQUIRED  
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

THESE COMMODITIES OR TECHNOLOGY, WHEN EXPORTED FROM THE UNITED STATES, ARE IN ACCORDANCE WITH THE USA EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. U.S. LAW ALSO PROHIBITS DISPOSITION OF THESE COMMODITIES/TECHNICAL DATA TO ANY END-USER OR FOR ANY END-USE RELATED TO THE DESIGN, DEVELOPMENT, PRODUCTION, STOCKPILING, OR USE OF CHEMICAL, BIOLOGICAL, OR NUCLEAR WEAPONS, OR MISSILES, WITHOUT THE PROPER APPROVAL OF THE UNITED STATES GOVERNMENT.

ATI-FRP DEFINES THE GRAIN ORIENTATION NOMENCLATURE AS LONGITUDINAL (L) IS THE LENGTH, LONG TRANSVERSE (LT) IS THE WIDTH, AND SHORT TRANSVERSE (ST) IS THE THICKNESS OR GAUGE.

ATI FLAT ROLLED PRODUCTS HAS COMPLIED WITH ALL PRODUCER REQUIREMENTS OF AS6279.

ATI FLAT ROLLED PRODUCTS DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS.

MATERIAL IS OF USA MELT AND MANUFACTURE.

PAGE 02 - CONTINUED ON PAGE 03

08/21/17 15:34:46

**CONSIGNEE** - Please Note—This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

**WARNING**  
Safety Data Sheets for this product are available on our website, [www.ATImetals.com](http://www.ATImetals.com). A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Noreen Deferrari -  
Sr. Manager Quality, Corporate Quality Assurance

**NOTICE OF SHIPMENT/  
PACKING LIST**



8318

**CERTIFICATE OF TEST**

AL 6168-8 417

CUST. ORD. NO. & DATE 9417		CUST. CODE 05/12/17A464105	FINISHING LOCATION LOUISVILLE, OH	SHIPPER NO. 542905	PRODUCT CODE 13010105060000	*** ENGLISH *** MILL ORDER NUMBER 31-057-041	*** DATE SHIPPED 08/21/17
SOLD TO 1	FORMS DISTRIBUTION SHIP TO SPEC	REPEAT ORDER 09560-0	DO RATE 36	GOV'T CONTRACT	MAT'L. 1340	SHIPPING LOCATION INDIANAPOLIS	INVOICE 244093
SOLD TO		PRIME DSO 10	SEC. DSO		SHIP TO		399

GRADE "ATI 400" NICKEL ALLOY SHEET C R CUT LENGTHS ANNEALED #3/#4 POLISH 3 EDGE  
CARRIER - SUNTECK TRANSPORTATION

NO WELDS/WELD REPAIRS PERFORMED.

ELEMENTS SUCH AS SULFUR, PHOSPHOROUS, BORON, AND RADIOACTIVE ELEMENTS MAY BE PRESENT AS RESIDUALS IN ANY GIVEN PRODUCT DUE TO THEIR COMMON OCCURENCE IN NATURE, BUT ARE NOT ADDED AS ALLOYING CONSTITUENTS UNLESS REQUIRED BY SPECIFICATION. MATERIAL IS PRODUCED WITHOUT CONTACT WITH LOW MELTING POINT CONTAMINANTS SUCH AS LEAD, ZINC, COPPER, AND TIN. CARBON STEEL CONTAMINATION IS MINIMIZED WHERE PRACTICABLE.

EN 10204:2005 - ATI FLAT ROLLED PRODUCTS IS APPROVED AS A MANUFACTURER ACCORDING TO THE PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU.

MATERIAL IS COMPLIANT WITH THE EUROPEAN UNION DIRECTIVE 2011/65/EU - RESTRICTION OF HAZARDOUS SUBSTANCES (ROHS2).

ATI FLAT ROLLED PRODUCTS 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.

THIS CERTIFIED MATERIAL TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI FRP HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI FRP QUALITY MANUAL REVISION 26 DATED 06/14/2017.

ATI FLAT ROLLED PRODUCTS WORKS TO THE ROLLS ROYCE SABRE QUALITY MANAGEMENT SYSTEM REQUIREMENTS.

QUALITY SYSTEM CERTIFIED ACCORDING TO PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU, ANNEX I, 4.3 BY TUV SUD, INDUSTRIE SERVICE GMBH, (NOTIFIED BODY 0036).

PAGE 03 - CONTINUED ON PAGE 04

08/21/17 15:34:46

**CONSIGNEE** - Please Note--This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

**WARNING**  
Safety Data Sheets for this product are available on our website, [www.ATImetals.com](http://www.ATImetals.com). A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Noreen Deferrari -  
Sr. Manager Quality, Corporate Quality Assurance

**NOTICE OF SHIPMENT/  
PACKING LIST**



**Flat Rolled Products**

8318

**CERTIFICATE OF TEST**

AL 6168-8 417

CUST. ORD. NO. & DATE 9417			CUST. CODE 05/12/17 A464105		FINISHING LOCATION LOUISVILLE, OH		SHIPPER NO. 542905		PRODUCT CODE 13010105060000		*** ENGLISH *** MILL ORDER NUMBER 31-057-041		*** DATE SHIPPED 08/21/17	
FORMS DISTRIBUTION SOLD TO → 1 SHIP TO → SPEC →			REPEAT ORDER 09560-0		DO RATE 36		GOV'T CONTRACT		MATL. 1340		SHIPPING LOCATION INDIANAPOLIS		INVOICE 244093	
SOLD TO			PRIME		SEC.				SHIP TO				399	
			DSO		DSO									
			10											

GRADE "ATI 400" NICKEL ALLOY SHEET C R CUT LENGTHS ANNEALED #3/#4 POLISH 3 EDGE CARRIER - SUNTECK TRANSPORTATION

ATI FLAT ROLLED PRODUCTS PERFORMS CHEMICAL ANALYSIS BY THE 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  
B BY OES  
AL AND TI ( $\geq 0.10\%$ ) BY WDXRF, OTHERWISE BY OES  
PB, BI, AG BY GFAA

MATERIAL TESTED AT ATI FLAT ROLLED PRODUCTS GEAE S400 APPROVED FACILITIES (T1225 & T9317): NATRONA HEIGHTS, PA; BRACKENRIDGE, PA AND NEW BEDFORD, MA.

ATI FLAT ROLLED PRODUCTS HOLDS SEVERAL QUALITY AND LABORATORY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, AD 2000-MERKBLATT WO, EU PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU, NADCAP, ISO/EIC 17025, GEAE S400 (T1225 & T9317), GEAE S-1000. REFER TO WWW.ATIMETALS.COM TO ACCESS THE CURRENT ATI FRP QUALITY CERTIFICATIONS.

ATI FLAT ROLLED PRODUCTS HAS RECEIVED NADCAP APPROVAL FOR CHEMICAL, MECHANICAL, METALLOGRAPHIC, HARDNESS, CORROSION TESTING, MECHANICAL TEST SPECIMEN PREPARATION, AND HEAT TREATMENT OF SPECIMENS. VERIFICATION OF SCOPE AND ACCREDITATION IS AVAILABLE ONLINE.

EN 10204:2005 3.1 CERTIFICATE.

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:

LO = ATI-FLAT ROLLED PRODUCTS; ROUTE 981 NORTH; LATROBE, PA 15650

TC = ATI-FLAT ROLLED PRODUCTS; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

PAGE 04 - CONTINUED ON PAGE 05

08/21/17 15:34:46

**CONSIGNEE** - Please Note—This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

**WARNING**  
Safety Data Sheets for this product are available on our website, [www.ATImetals.com](http://www.ATImetals.com). A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Noreen Deferrari - Sr. Manager Quality, Corporate Quality Assurance

**NOTICE OF SHIPMENT/  
PACKING LIST**



AL 6168-8 417

**CERTIFICATE OF TEST**

CUST. ORD. NO. & DATE		CUST. CODE		FINISHING LOCATION		SHIPPER NO.		PRODUCT CODE		*** ENGLISH ***		MILL ORDER NUMBER		DATE SHIPPED	
9417		05/12/17		A464105		LOUISVILLE, OH		542905		13010105060000		31-057-041		08/21/17	
FORMS DISTRIBUTION		REPEAT ORDER		DO RATE		PRI-ORITY		GOVT CONTRACT		MAT'L		SHIPPING LOCATION		INVOICE	
SOLD TO → 1		09560-0		36						1340		INDIANAPOLIS		244093	
SOLD TO		PRIME		SEC.						SHIP TO				399	
		DSO		DSO											
		10													

GRADE "ATI 400" NICKEL ALLOY SHEET C R CUT LENGTHS ANNEALED #3/#4 POLISH 3 EDGE CARRIER - SUNTECK TRANSPORTATION

<<<<<<<< FOR ACCESS TO ONLINE CERTIFICATES OF TEST >>>>>>>>  
<<<<<<<< REGISTER AT MYATI.ATIMETALS.COM >>>>>>>>

PAGE 05 - FINAL PAGE.

\*\* METRIC TO FOLLOW

08/21/17 15:34:46

**CONSIGNEE:** Please Note--This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

**WARNING**  
Safety Data Sheets for this product are available on our website, [www.ATImetals.com](http://www.ATImetals.com). A thorough review of the Safety Data Sheet for the grade of material purchased shall be performed prior to working with this product and all safety & health considerations outlined must be implemented.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Noreen Deferrari -   
Sr. Manager Quality, Corporate Quality Assurance