

**NOTICE OF SHIPMENT/
PACKING LIST**



AL 6188 4-1211

CERTIFICATE OF TEST

CURT. ORD. NO. & DATE

8432/5471
FORMS DISTRIBUTION

SOLD TO →

CURT. CODE

12/09/13 923712

ACCEPTING MILL

LOUISVILLE, OH

SHIPPER NO.

404509

PRODUCT CODE

13020116120000

MILL ORDER NUMBER

32-123-050

DATE SHIPPED

12/17/13

INVOICE

240553

SHIPPING LOCATION

6120 LOUISVILLE

GOVT CONTRACT

01531-029

MAT'L

OH

SHIPPER NO.

404509

DATE SHIPPED

12/17/13

INVOICE

240553

SHIPPER NO.

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OH

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GRADE AND SPECIFICATIONS

ATI GRADE 2 UNALLOYED TITANIUM SHEET C R COILS ANNEALED IBA FIN MILL EDGE (ASTM-B-265-13A) (ASTM-E-29-13) (ASTM-E-8-11) (ASTM-E-1447-09) (ASTM-E-1409-08) (ASTM-E-1941-10) (ASTM-E-290-13)

ITEM PCS DIMENSIONS W/G/L

010A 1 49. / .0206 / 2106.

1 SKID

CARRIER CUSTOMER TRUCK

TEST # COIL # HEAT # GROSS TARE NET THEO TAG # / CD SKID #

L265045 08423T021A EM95JB

4200 40 4160 4119 290732

4200 40 4160 4119

ORDER REMARKS:

THE ABSENCE OF INTERLEAVE PAPER CAN LEAD TO SURFACE DAMAGE. A/L WILL ASSUME NO RESPONSIBILITY FOR SUCH DAMAGE ON ORDERS WHICH PROHIBIT PAPER INTERLEAVE.

DIST:

EMAIL AND MAIL ACKNOWLEDGMENTS TO MCGINNIS@UNITI-TITANIUM.COM / KUNKLE@UNITI-TITANIUM.COM
SHADERLIE@UNITI-TITANIUM.COM SEND ONLY ENGLISH INVOICES, NO METRIC ORDERS NO CERTS TO THE SOLD-TO, UNITI RECEIVES THRU ON-DEMAND

TYPE HEAT/TEST (WT %)

FINAL EM95JB

TOP .01

BOT .01

TEST LOCATION

RW RW RW

YIELD TENSILE & ELONG

PSI * PSI IN 2" & R/A HARDNESS BEND

L 45700. 67000. 31. NR NR

L 46100. 67500. 30. TC NR

TC TC

* Y.S. BY 0.2% OFFSET METHOD

GRAIN

SIZE

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

NR

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COUSENSE. Please Note: This copy must use turned over to carrier in final close condition, being correctly headed at which time our responsibility for loss or damage in shipment ceases. For protection please advise shipment as to correct if any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

WAR-180
Material Safety Data Sheets for this product have been supplied to the purchasing department. For an additional copy please call 724-226-5280. CAUTION: Processing this material under conditions of stress may cause hydrogen embrittlement. Safety Data Sheets for further information refer to our Bureau d'information-accueil. Les fiches d'information-accueil de ce produit ont été fournies à votre département des achats. Pour obtenir des renseignements supplémentaires veuillez s'adresser au service client 724-226-5280. Attention: Un traitement de ce matériau sous contrainte peut entraîner la production de fissures, pointes, ou autres défauts. Pour plus de renseignements se référer aux fiches d'information-accueil.

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 the buyer's purchase order. Acknowledgment.

Stephen Wolf
Director, Corporate Quality Assurance

**NOTICE OF SHIPMENT/
PACKING LIST**



CERTIFICATE OF TEST

AL 61684 1211

CUST. ORD. NO. & DATE

8432 / 5471
FORWARD DISTRIBUTION

12/09/13 923712

ACCEPTING MILL

LOUISVILLE, OH

REPEAT ORDER RATE PR. DATE CRTY

01531-0 29

SHIPPER NO.

404509

GOVT CONTRACT

PRODUCT CODE

13020116120000

DATE SHIPPED

12/17/13

MAIL ORDER NUMBER

32-123-050

INVOICE

240553

SHIPPING LOCATION

6120-LOUISVILLE

OH

OH 240553

ATI GRADE 2 UNALLOYED TITANIUM SHEET C R COILS ANNEALED IBA FIN MILL EDGE
CARRIER CUSTOMER TRUCK

ITEM TEST NO	YIELD	TENSILE	TRAN ELONG BEND
010A L265045	PSI *	PSI	IN 2 INCH BOTTOM
	T 52000.	63000.	BEND
	T 53000.	64000.	T PASS
TEST LOCATION	TC	TC	TC

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY
DIN EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL.
THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. MATERIAL MELT AND CHEMICAL TESTING WERE PERFORMED BY AN OUTSIDE ATI AL APPROVED SUPPLIER.

ATI ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:
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 (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB, BI, AG BY GFAA

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:
RW = ATI-RICHLAND; 3101 KINGSGATE WAY; RICHLAND, WA. 99354
TC = ATI-ALLEGHENY LODDLUM; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065
XXI = CALCULATED

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COMPLIANCE - Please Note: This certification was turned over to carrier in that 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 discrepancy is encountered, file a full description made by transportation agent on receipt before signing.

WARNING - Please Note: This information is provided for your information only. It does not constitute a warranty or representation of any kind. For more information, please contact our sales office at 724-238-5880. CAUTION: Processing that makes titanium susceptible to stress corrosion cracking (SCC) is a complex process. It involves the use of specific materials, processes, and procedures. For more information, please contact our sales office at 724-238-5880.

The above is a true copy of data on file. This material and test results conform to the end user's and specifications as set forth in Allegheny Ludlum's Order Acknowledgment.

Stephen Wall
Director, Corporate Quality Assurance

