

**NOTICE OF SHIPMENT/
PACKING LIST**



CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE 16121-P FORMS DISTRIBUTION SOLD TO 1 SHIP TO 70 SPEC	CUST. COOE 01/27/09	873376	LOUISVILLE, OH	SHIPPER NO. 413544 GOV'T CONTRACT	PRODUCT CODE 13020116060000 MATL. 6120	MILL ORDER NUMBER 32-019-099 SHIPPING LOCATION LOUISVILLE	DATE SHIPPED 02/23/09 INVOICE 240253
		REPEAT ORDER 93431-1	DO RATE 34	PRIO-ORITY			
		PRIME DSO 402	SEC. DSO				

GRADE AND SPECIFICATIONS
COMMERCIALLY PURE TITANIUM GRADE 2 SHEET C R COILS ANNEALED 1BA FIN 3 EDGE (AMS 4902H) (AMS-T-9046A CP-3) (S-1000 DATED 1/2/08) (S-400 DTD 10/31/07) (ASTM-F-67-06) (ISO 5832-2) (DMS 2442 REV E) (RR9000:SABRE) (ASTM-B-265-08A)

CARRIER - CUSTOMER TRUCK

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	LIFT #	TEST #	GROSS	TARE	NET	THEO	TAG #/	CD	SKID #
001B	1	48././025/1010.	W77NEM	04418T084BA	L225365	2290	50	2240		628792		
	1	48././025/1010.	W77NEM	04418T084BB	L225365	2310	50	2260		628795		
	1	48././025/1075.	W77NEM	04418T084BC	L225365	2460	50	2410		628796		
C CUST IDENTITY GR21BA48.00.025ISO												
3 SKIDS												
						7060	150	6910				

TYPE HEAT/TEST	--C--	--TI--	--N--	--FE--	--O--	R-EACH	R-TOTL
HEAT W77NEM	.01	BAL	.002	.11	.12	<.1000	<.3000

ITEM TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"	% R/A	HARDNESS	BEND	ALPHA CASE	GRAIN SIZE	H2 CHECK
001B L225365	L 51500.	70500.	28.	NR	NR	NR	PASS	10.	.0026
	L 52500.	71000.	28.				PASS	10.	.3021

* Y.S. BY 0.2% OFFSET METHOD

ITEM TEST NO	YIELD PSI *	TENSILE PSI	TRAN IN 2	ELONG INCH	BEND BOTTOM	BEND BOTTOM	BEND
001B L225365	T 58000.	66000.	28.	L PASS	L PASS	T PASS	T PASS
	T 57500.	66000.	30.	L PASS	L PASS	T PASS	T PASS

ITEM TEST NO	MELT SOURCE	A5 ELONG	NR
001B L225365	1.		

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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 or waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

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 Allegheny Ludlum's Order Acknowledgment.

Tracy McFarland
Director, Corporate Quality Assurance

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CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE 16121-P FORMS DISTRIBUTION SOLD TO 1 SHIP TO SPEC	CUST. CODE 01/27/09 873376	ACCEPTING MILL LOUISVILLE, OH	SHIPPER NO. 413544 GOVT CONTRACT	PRODUCT CODE 13020116060000 MATL. LOUISVILLE	MILL ORDER NUMBER 32-019-099 SHIPPING LOCATION OH	DATE SHIPPED 02/23/09 INVOICE 240253
	REPEAT ORDER 93431-1	DO RATE 34				
	PRIME DSO 402	SEC. DSO				

GRADE AND SPECIFICATIONS

COMMERCIALLY PURE TITANIUM GRADE 2 SHEET C R COILS ANNEALED 1BA FIN 3 EDGE (AMS 4902H) (AMS-T-9046A CP-3) (S-1000 DATED 1/2/08) (S-400 DTD 10/31/07) (ASTM-F-67-06) (ISO 5832-2) (DMS 2442 REV E) (RR9000:SABRE) (ASTM-B-265-08A)

CARRIER - CUSTOMER TRUCK

ITEM TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"
001B L225365	L 53300.	70625.	28.
	L 52530.	70950.	28.
* Y.S. BY 0.2% OFFSET METHOD			
ITEM TEST NO	YIELD PSI *	TENSILE PSI	TRAN ELONG IN 2 INCH
001B L225365	T 61318.	67196.	28.
	T 61731.	66388.	29.

TEST RESULTS ABOVE ARE FOR (AMS 4902J). MATERIAL TESTED AT .005/INCH/INCH/MINUTE.

NR = DATA NOT REQUIRED

METALLOGRAPHIC MAGNIFICATION: 100X ETCHANT USED: KROLLS ETCH

GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

ALLEGHENY LUDLUM DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS. TO THE BEST OF ALLEGHENY LUDLUMS KNOWLEDGE, UNDERSTANDING, AND BELIEF, THIS MATERIAL WAS NOT CONTAMINATED BY MERCURY WHILE IT WAS BEING PRODUCED IN OUR FACILITIES.

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CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE 16121-P FORMS DISTRIBUTION	CUST. CODE 01/27/09	873376	ACCEPTING MILL LOUISVILLE, OH	SHIPPER NO. 413544	PRODUCT CODE 13020116060000	MILL ORDER NUMBER 32-019-099	DATE SHIPPED 02/23/09			
SOLD TO 1	SHIP TO	SPC	REPEAT ORDER 93431-1	DO RATE 134	PRI-ORITY	GOV'T CONTRACT	MATL. 6120	SHIPPING LOCATION LOUISVILLE	OH	INVOICE 240253
			PRIME SEC DSO DSO 402							

GRADE AND SPECIFICATIONS

CARRIER - CUSTOMER TRUCK

COMMERCIALLY PURE TITANIUM GRADE 2 SHEET C R COILS ANNEALED 1BA FIN 3 EDGE (AMS 4902H) (AMS-T-9046A CP-3) (S-1000 DATED 1/2/08) (S-400 DTD 10/31/07) (ASTM-F-67-06) (ISO 5832-2) (DMS 2442 REV E) (RR9000:SABRE) (ASTM-B-265-08A)

THE NUMERIC CODES SHOWN UNDER MELT SOURCE CAN BE INTERPRETED AS FOLLOWS:

1. - MATERIAL MELTED AND ROLLED IN THE UNITED STATES AND COMPLIES WITH DFARS EDITION 1998, SECTION 252.225-7014
2. - FOREIGN MELT AND ROLLED IN THE UNITED STATES

PRODUCT WAS ANNEALED BY HEATING TO A TEMPERATURE WITHIN THE RANGE 1200 TO 1500F (649 TO 816C), HOLDING AT THE SELECTED TEMPERATURE (+/- 25F OR 14C) FOR A TIME COMMENSURATE WITH THE THICKNESS AND THE HEATING PROCEDURE USED, AND COOLING AS REQUIRED.

THIS CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. MATERIAL MELT AND CHEMICAL TESTING WERE PERFORMED BY AN OUTSIDE ALC APPROVED SUPPLIER.

ATI-ALLEGHENY LUDLUM HOLDS SEVERAL QUALITY AND LABORATORY CERTIFICATIONS THAT INCLUDE ISO-9001:2000, S9100, AD 2000-MERKBLATT WO, AND EU PRESSURE EQUIPMENT DIRECTIVE 97/23/EC, NADCAP MATERIALS TESTING, SO/IEC 17025, GEAE S400, GEAE S1000. REFER TO WWW.ALLEGHENYLUDLUM.COM TO ACCESS THE CURRENT ATI-AL QUALITY CERTIFICATIONS.

ALLEGHENY LUDLUM WORKS TO THE ROLLS ROYCE RR9000:SABRE REQUIREMENTS.

MELT SOURCE IS ATI IN RICHLAND, WA OR ALBANY, OR PER IAW DMS QPL 2442 ISSUE 13, 9/18/03, AND COMPLIES WITH DMS 2442 REV E AND DFARS ED.98, SECTION 252.225-7014.

MATERIAL TESTED AT ALLEGHENY LUDLUM GEAE S400 (DATED 10/31/07) APPROVED FACILITIES: NATRONA HEIGHTS TECHNICAL CENTER AND BRACKENRIDGE, PA.

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CUST. ORD. NO. & DATE			CUST. CODE		ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED	
16121-P			01/27/09		873376	LOUISVILLE, OH	413544	13020116060000	32-019-099	02/23/09
FORMS DISTRIBUTION			REPEAT ORDER		DO DATE	PRI-ORITY	MATL.	SHIPPING LOCATION	INVOICE	
SOLD TO	SHIP TO	SPEC	93431-1		34		6120 LOUISVILLE	OH	240253	
			PRIME		SEC					
			DSO		DSO					
			402							

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CARRIER - CUSTOMER TRUCK

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

MATERIAL MELTED AND ROLLED IN THE UNITED STATES AND COMPLIES WITH DFARS EDITION 1998, SECTION 52.225-7014

FOR ACCESS TO ONLINE CERTIFICATES OF TEST REGISTER AT WWW.ALCEXTRA.COM

THE CHEMICAL AND MECHANICAL PROPERTIES MEET THE REQUIREMENTS OF (AMS 4902J).
 REISSUED BY ALLEGHENY LUDLUM - 07/15/2010 10:20 /jkm

THE CHEMICAL AND MECHANICAL PROPERTIES MEET THE REQUIREMENTS OF (MIL-T-9046J & AMEND 2).
 NOTE: MIL-T-9046 WAS CANCELLED 9/17/1999 AND REPLACED BY AMS STANDARDS.
 REISSUED BY ALLEGHENY LUDLUM - 10/11/2010 13:18 /cmd

PAGE 04 = FINAL PAGE

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