

**NOTICE OF SHIPMENT/
PACKING LIST**



CERTIFICATE OF TEST

AL 6168-3 908

CUST. ORD. NO. & DATE 22392	CUST. CODE 11/12/09	ACCEPTING MILL 732625	SHIPPER NO. LOUISVILLE, OH	PRODUCT CODE 446041	MILL ORDER NUMBER 13010116060000	DATE SHIPPED 32-119-078	02/26/10
SOLD TO → 1	FORMS DISTRIBUTION SHIP TO →	REPEAT ORDER 90449-5	DO RATE 34	GOVT CONTRACT	MATL 6140	SHIPPING LOCATION BRACKENRIDGE	INVOICE PA 030234
		PRIME DSO 585	SEC. DSO				

GRADE AND SPECIFICATIONS
 COMMERCIAL PURE TITANIUM GRADE 4 SHEET C R CUT LENGTHS ANNEALED 1BA FIN 3 EDGE (AMS-T-9046A CP-1) (AMS 4901P) (PWA 300 REV BJ) (ASTM-F-67-06) (F-14, F-17, F-22, F-23, F-MASTER) (ASTM-B-265-09A) (ISO 5832-2:1999E) (DMS 1536 REV L) (04/02/09 EXCEPTIONS TO DMS 1536) (CONTROLLED TO PWA LCS REQUIRMENTS) (MIL-T-9046J & AMEND 2) (11/17/00 EXCEPT TO MIL-T-9046J)

CARRIER - CLAY TRANSPORT, INC.

ITEM PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS TARE NET	THEO	TAG #/ CD SKID #
001A	54 48./ .020/120.	N86CEM	10429T296BB	L236826	1368 342 1026		684738
	1 SKID				1368 342 1026		

TYPE HEAT/TEST	---C---	---TI---	---N---	---FE---	---O---	R-EACH	R-TOTL
HEAT N86CEM	.01	BAL	.002	.15	.30	<.1000	<.3000

ITEM TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"	R/A	HARDNESS NR	BEND	ALPHA CASE	GRAIN SIZE	H2 CHECK
001A L236826	L 76500.	97500.	26.	NR	NR	L PASS	PASS	9.	.0024
	L 77000.	98000.	26.			L PASS	PASS	9.	.0027

MELT METHOD - ELECTRON BEAM TEST NO L236826

* Y.S. BY 0.2% OFFSET METHOD

ITEM TEST NO	YIELD PSI *	TENSILE PSI	TRAN ELONG IN 2 INCH	BEND BOTTOM	BEND	BEND BOTTOM	BEND
001A L236826	T 85500.	98000.	26.	L PASS	L PASS	T PASS	T PASS
	T 82500.	96000.	27.	L PASS	L PASS	T PASS	T PASS

ITEM TEST NO	PREDOMINAT AVERAGE	P&W E-25	P&W E-25
001A L236826	GRAIN SIZE	LONG BEND	TRAN BEND
	9.	2.	2.
	9.	T PASS	2.
	9.	T PASS	2.

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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 on 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 Acknowledgement.

Timothy McFarland - Director, Corporate Quality Assurance

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CARRIER - CLAY TRANSPORT, INC.

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.

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.

DIN EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL

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.

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Tracy McFarland - Director, Corporate Quality Assurance

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MILITARY STANDARD MIL-T-9046 WAS CANCELLED 09/17/99 AND REPLACED BY AMS STANDARDS

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

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

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