

NOTICE OF SHIPMENT/  
PACKING LIST



CERTIFICATE OF TEST

AL 8186A.7 400

CUST ORD NO & DATE 21431	CUST CODE 11/16/04	732625	BRACKENRIDGE, PA	433451	13010103060000	32-114-070	02/08/05
FORMS DISTRIBUTION SOLD TO	SHIP TO	SPEC	REPEAT ORDER	DO PR. RATE ORTY	GOVT CONTRACT	SHIPING LOCATION	INVOICE
1			86071-0	34		6140 BRACKENRIDGE PA	035912
			PRIME	SEC.		SHIP TO	
			DSO	DSO			
			585				

GRADE AND SPECIFICATIONS  
COMMERCIALY PURE TITANIUM GRADE 4 SHEET C R CUT LENGTHS ANNEALED 2D FIN 3 EDGE (AMS-T-9046A CP-1) (AMS 4901N) (PWA 300 REV BH) (ASTM-F-67-00) (F-14, F-17, F-22, F-23, F-MASTER) (ASTM-B-265-Q3) (ISO 5832-2) ---  
CONTROL TO PWA REQUIREMENTS FOR LCS --

CARRIER - NEW PENN MOTOR EXPRESS

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/	CD	SKID #
001C	198	39.37/.016/96.	KK79EM	-01	D1442T265MBA	1399366	2030	85	1945	055415		
		1 SKID					2030	85	1945			

TYPE HEAT/TEST HEAT KK79EM-01	--C--	--TI--	--N--	--FE--	--O--	--OTHERS EACH--	--OTHERS TOTAL--
	.01	BAL	.005	.18	.30	<.10	<.30

ITEM TEST NO 001C 1399366	YIELD PSI *	TENSILE PSI	ELONG IN 2"	BEND L PASS	ALPHA CASE PASS	H2 CHECK .0018
	L 75000.	98500.	24.	L PASS	PASS	.0018
	T 78000.	100000.	26.	L PASS	PASS	.0016

MELT METHOD - ELECTRON BEAM.  
\* Y.S. BY 0.2% OFFSET METHOD

ITEM TEST NO 001C 1399366	YIELD PSI *	TENSILE PSI	TRAN IN 2 INCH	ELONG PSI	BEND BOTTOM	BEND L PASS	BEND T PASS	BEND T PASS
	T 82000.	98000.	23.	L PASS	L PASS	T PASS	T PASS	
	T 78000.	100000.	23.	L PASS	L PASS	T PASS	T PASS	

ITEM TEST NO 001C 1399366	PREDOMINAT GRAIN SIZE	OCCASIONAL GRAIN SIZE	BEND T PASS	LONG BEND 2.	P&W E-25 2.	P&W E-25 2.	TRAN BEND 2.
	8.						

METALLOGRAPHIC MAGNIFICATION: 100X ETCHANT USED: KROLLS ETCH

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02/08/05 14:20:32

CONDITION - Please Note - This commitment was turned over to carrier in the class condition being contract loaded, at which time our responsibility for loss or damage in shipment ceases. 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 applied to your Purchasing Department. For an additional copy phone 724-228-4877. CAUTION: Processing this material may cause or contribute to cancer, lung disease, and other health problems. See Material Safety Data Sheets for further information.

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: 724-228-4877. Attention: les produits traités peuvent être producteurs de vapeurs, poussières, ou solutions peuvent être causes de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of those on file. The carrier will bear responsibility for loss or damage in transit and upon arrival at the port of destination. C. M. Napoli, Manager Technical Information

NOTICE OF SHIPMENT/  
PACKING LIST



AL 8188A-7 400

CERTIFICATE OF TEST

CUST. ORD. NO. & DATE 21431	CUST. CODE 732625	ACCEPTING MFL BRACKENRIDGE, PA 1433451	SHIPPER NO 433451	PRODUCT CODE 13010103060000	MILL ORDER NUMBER 32-114-070	DATE SHIPPED 02/08/05
FORMS DISTRIBUTION SOLD TO	11/16/04	REPEAT ORDER 86071-0	DO PR RATE ORVY 34	MATERIAL 6140	SHIPPING LOCATION BRACKENRIDGE PA	INVOICE 035912
		PRIME SEC. DSO DSO 585		SHIP TO		

GRADE AND SPECIFICATIONS  
COMMERCIALLY PURE TITANIUM GRADE 4 SHEET CR CUT LENGTHS CARRIER - NEW PENN MOTOR EXPRESS  
4901N) (FWA 300 REV BH) (ASTM-F-67-00) (F-14, F-17, F-22, F-23, F-MASTER) (ASTM-B-265-03) (ISO 5032-2) --  
CONTROL TO PWA REQUIREMENTS FOR LCS --

GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

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 WAS PERFORMED BY AN OUTSIDE ALC APPROVED SUPPLIER.

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

INGOT SOURCE FOR TITANIUM WAS ALLVAC, RICHLAND, WASHINGTON. CHEMICAL ANALYSIS WAS PERFORMED BY A PRATT & WHITNEY APPROVED CHEMICAL LABORATORY.

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ISSUED BY ALLEGHENY LUDLUM - 2/8/05 14:53  
CAROLE DEFILIPPI - TECHNICAL SYSTEMS

*Carole Defilippi*  
*C.M. Napoli*  
C. M. Napoli  
Manager, Technical Information

DISCLAIMER: Please Note: This document was written over a copy of the data on file. The material and test results conform to the same contract and specifications as set forth in Allegheny Ludlum's Certificate of Authorization.

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

WARNING: Les fiches d'informations-sécurité de ce produit ont été fournies à votre département achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: Ne travaillerez sans la protection de vos yeux, vos vêtements ou votre peau. Les solvants ou les poussières peuvent causer des maladies respiratoires. Pour plus de renseignements se référer aux fiches d'informations-sécurité.

The above is a true copy of the on file. (The material and test results conform to the same contract and specifications) as set forth in Allegheny Ludlum's Certificate of Authorization.