

HT # M21N8BR

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HUNTINGTON ALLOYS A Special Metals Company

HUNTINGTON, WEST VIRGINIA 25720

NOTE: THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE SA FELONY UNDER FEDERAL STATUTE.
SOUTHERN U.S.

CORROSION MATERIALS INC
2262 GROOM RD
BAKER LA 70714

CORROSION MATERIALS INC
PO BOX 630
BAKER LA 70714

CERTIFIED MATERIAL TEST REPORT		No.
HA ORDER NO./ITEM	DATE	57499
100035231 2	03/05/08	
QUANTITY	INSPECTED BY	PAGE OF
14046 LBS	HA/SMC	1 2
CHARGE ORDER NO.	MARK ORDER NO.	
73231	73231	

DESCRIPTION OF MATERIAL SHIPPED
MONEL ALLOY 400 HR PLATE DESCALED ANN
2.0000 IN 72-78 IN 240-288 IN ACUT

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLES, INSPECTIONS AND TESTS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE ORDER AND SPECIFICATION REQUIREMENTS. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND TRUE. ALL ORDER REQUIREMENTS AND THE VALUES SHOWN ARE IN FULL COMPLIANCE WITH THE BELOW PROVISIONS AND IN ACCORDANCE WITH THE ORDERED CONTRACT REQUIREMENTS.

QUALITY CERTIFICATION REPRESENTATIVE

*****THIS REPORT RELATES ONLY TO THE ITEM(S) TESTED AND MAY NOT BE REPRODUCED EXCEPT IN FULL.*****

UNS: N04400

SPECIFICATIONS: ASTM B 127-05 \ ASME SB-127 2007 EDITION NO ADDENDA \
US FED QQ-N-281D AM 2 CL A FM 6 \ FLATNESS PER ASTM A 480 \ \
QUALITY SYSTEM CERTIFICATION: ISO 9001:2000, (ABS-QE CERT. 30125);
EN 10 204/DIN 50049 (TYPE 3.1.1)

CHEMICAL ANALYSIS (WT. %)

HEAT#	C	MN	FE	S	SI	CU	NI	AL	CO
M21N8BR	0.13	0.92	1.41	<0.001	0.12	33.57	63.77	0.01	0.06
	0.008	7.1	0.8	2.7	63.83				

TO CONVERT PPM TO WT.%, MOVE DECIMAL POINT FOUR PLACES TO THE LEFT.

MELT METHOD: AIM

MECHANICAL PROPERTIES

HEAT/LOT	QUANTITY	HARDNESS	TENSILE	YIELD	GRAIN SIZE	R/A	DEG
M21N8BR 11	1 PC						
ROOM TEMP-HRB	-AS SHIPPED	67.5	0314	0799	47.2	76.0	
	P89080						
GRAIN SIZE-AS SHIPPED	AGS ASTM NO.	6.5					
NORMAL - TRAN							



TRACER# 058808

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

NO WELDING OR WELD REPAIR WAS PERFORMED.

MATERIAL HEAT TREAT: ANNEAL. AT 1400 DEG. F. FOR 2 HRS AND 30 MINUTES THEN AIR COOLED.

HT# M2IN8BR

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CERTIFIED MATERIAL TEST REPORT

No. 57499

HA ORDER NO./ITEM 100035231 2	DATE 03/05/08	PAGE 2	OF 2
QUANTITY 14046 LBS	INSPECTED BY HA/SMC		
CHARGE ORDER NO. 73231	MARK ORDER NO. 73231		
DESCRIPTION OF MATERIAL SHIPPED MONEL ALLOY 400 HR PLATE, DESCALED ANN 2.0000 IN 72-78 IN 240-288 IN ACUT			

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLING INSPECTIONS AND TESTS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE ORDER AND SPECIFICATION REQUIREMENTS. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND TRUE. THE MATERIAL DESCRIBED BY THIS CERTIFICATE IS IN FULL COMPLIANCE WITH ALL ORDER AND INSPECTION REQUIREMENTS. WE HEREBY CERTIFY THAT THE BELOW FIGURES ARE IN ACCORDANCE WITH THE SPECIFIED CONTRACT REQUIREMENTS.

[Signature]
QUALITY CERTIFICATION REPRESENTATIVE

COUNTRY OF ORIGIN: MELTED AND MANUFACTURED IN THE USA

VISUAL AND DIMENSIONAL EXAMINATION SATISFACTORY.

MATERIAL, WHEN SHIPPED, IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPHA SOURCE, & LOW MELTING ELEMENTS.

CHEMICAL ANALYSIS AS REQUIRED FOR CARBON, SULFUR, NITROGEN OR OXYGEN IS PERFORMED BY COMBUSTION TECHNIQUES. ALL OTHER REPORTED ELEMENTS ARE ANALYZED BY X-RAY AND/OR EMISSION SPECTROSCOPY."

QUALITY SYSTEM MEETS REQUIREMENTS OF DIRECTIVE 97/23/EC (PRESSURE EQUIPMENT DIRECTIVE), ANNEX 1, CHAPTER 4.3 PER ABS GROUP LTD CERTIFICATE 008 (EXPIRES AUGUST 2008) AND UV CERTIFICATE 20674928 (EXPIRES MAY 2008)"

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES :
E. BOLEN, P.D. CUSTER, M.A. MORRISON, P. WAUGH



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