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HUNTINGTON ALLOYS CORPORATION  
A Special Metals Company

HUNTINGTON, WEST VIRGINIA 25705-1771

SOUTHERN U.S.

CORROSION MATERIALS 5092 STEADMONT HOUSTON TX 77040		HA ORDER NO./ITEM 100050060 1	DATE 03/08/12	PAGE 1	29483 OF 2
CORROSION MATERIALS INC 2262 GROOM RD BAKER LA 70714		QUANTITY 3153 LBS	INSPECTED BY HA/SMC		
		CHARGE ORDER NO. 89952X	MARK ORDER NO. 89952X-5-051756500		
		DESCRIPTION (QUANTITY SHIPPED) MONEL ALLOY 400	HOT FIN RND ROUGH T STR REL 6,5000 IN 120-168 IN NOM		

THIS IS TO CERTIFY THAT ALL REQUIRED SAMPLINGS 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.

REV. 808

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

SPECIFICATIONS: ASTM B 164-03 (2008)\ASME SB-164 2010 EDITION 11 ADDENDA\ UNS: N04400  
ASTM B 564-10 CHEM ONLY  
ASME SB-564 2010 EDITION 11 ADDENDA CHEM ONLY  
US FED QQ-N-281D AM 2 CL. A FM 1 MARKING WAIVER,  
NACE MR0175-ISO 15156-3 (2009)  
QUALITY SYSTEM CERTIFICATION: ISO 9001:2008 (ABS-QE CERT. 30125);  
EN 10 204/DIN 50049 (TYPE 3.1)

8/2  
3/20/12

HEAT#	CHEMICAL ANALYSIS (WT. %)								
	C	MN	FE	S	SI	CU	NI	AL	CO
M6101BG	0.16	1.03	2.49	0.002	0.28	29.53	66.38	0.08	0.04
	0.010	5.0	5.7	4.1	66.42				

COUNTRY OF ORIGIN: MELTED AND MANUFACTURED IN THE USA  
TO CONVERT PPM TO WT.%, MOVE DECIMAL POINT FOUR PLACES TO THE LEFT.  
MELT METHOD: EF/AOD + ELECTROSLAG REMELTED

MECHANICAL PROPERTIES

HEAT/LOT	QUANTITY	HARDNESS	TENSILE	%ELG	R/A	DEC
M6101BG 11	2 PCS			2"	%	F
ROOM TEMP-HRB	-AS SHIPPED	83.3	0489	0918	36.4	56.9
PC# 111,112						

S ✓  
M

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

NO WELDING OR WELD REPAIR WAS PERFORMED.

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NOTE: THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTE

SOUTHERN U.S.

SHIP TO CHARGE TO

CORROSION MATERIALS  
5092 STEADMONT  
HOUSTON TX 77040

CORROSION MATERIALS INC  
2262 GROOM RD  
BAKER LA 70714

CERTIFIED MATERIAL TEST REPORT

No. 29483

HA ORDER NO./ITEM

100050060 1

DATE

03/08/12

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2 2

QUANTITY

3153 LBS

INSPECTED BY

HA/SMC

CHARGE ORDER NO.

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MARK ORDER NO.

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DESCRIPTION OF MATERIAL SHIPPED

MONEL ALLOY 400

HOT FIN RND ROUGH T STR REL

6.5000 IN 120-168 IN NOM

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REV. 8/09

MATERIAL HEAT TREAT: STRESS RELIEVED AT 1100 DEG. F. FOR 1 HR THEN AIR COOLED.

THIS REPORT SUPERSEDES OUR REPORT DATED 10/06/11, CMTR 22470, TO UPDATE SPECIFICATIONS.

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 41734 (EXPIRES JULY 30, 2014)."

HUNTINGTON ALLOYS CORPORATION IS AN ACCREDITED INDEPENDENT NADCAP MATERIALS TESTING LABORATORY VIA CERTIFICATE NUMBER 127805 (EXPIRES APRIL 30, 2013) FOR ALL TESTING SPECIFIED IN THE SCOPE OF ACCREDITATION.

MATERIAL PRODUCED UNDER QA SYSTEM DOCUMENTED IN HUNTINGTON ALLOYS CORP QA MANUAL REV. 49, DATED 2/17/2011

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES:  
W.E. BOLEN, M.A. MORRISON, D.K. MILLER, J.L. JEFFREY

