

HUNTINGTON ALLOYS CORPORATION
A Special Metals Company

HUNTINGTON, WEST VIRGINIA 25705-1771

SOUTHERN U.S.

CORROSION MATERIALS INC
 2262 GROOM RD
 BAKER LA 70714

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CERTIFIED MATERIAL TEST REPORT

HA ORDER NO./ITEM 100047335 1	DATE 02/26/11	1 2 2 1 4
QUANTITY 2834 LBS	INSPECTED BY HA/SMC	PAGE OF 1 2
CHARGE ORDER NO. 87759X	MARK ORDER NO. 87759X-1-051759000	
DESCRIPTION OF MATERIAL SHIPPED MONEL ALLOY 400	HOT FIN RND ROUGH T STR REL	
9.0000 IN 132-156 IN NOM		

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.
 REV. 8008

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

UNS: N04400

SPECIFICATIONS: ASTM B 164-03 (2008)\ASME SB-164 2007 EDITION 09 ADDENDA\
 ASTM B 564-06 \ASME SB-564 2007 EDITION 09 ADDENDA\
 US FED QQ-N-281D AM 2 CL A FM 1 MARKING WAIVED\
 QUALITY SYSTEM CERTIFICATION: ISO 9001:2008 (ABS-QE CERT. 30125);
 EN 10 204/DIN 50049 (TYPE 3.1)

HEAT#	C	P	Mn PB/PPM	Fe SN/PPM	S ZN/PPM	SI NI+CO	CHEMICAL ANALYSIS (WT. %)		AL	NI	CO
							CU	AL			
M20P4BG	0.14	0.99	0.99	1.49	<0.001	0.21	32.03	65.04	0.05	0.04	0.04
	0.006	4.8	4.8	2.8	6.7	65.08					

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

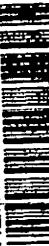
MECHANICAL PROPERTIES
 HARD GRAIN YIELD TENSILE %ELG R/A DEG
 NESS SIZE .2%PSI PSI X 100 X 100 2" % F
 QUANTITY X 100 X 100

M20P4BG 11 1 PC
 ROOM TEMP-HRB -AS SHIPPED 82.8 0460 0866 41.2 70.4
 PC# 11

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

NO WELDING OR WELD REPAIR WAS PERFORMED.

MATERIAL HEAT TREAT: STRESS RELIEVE AT 1100 DEG. F. FOR 1 HOUR THEN AIR COOLED.

HEAT# M20P4BG11

 TRACER# 644375

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REV. 008

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 31, 2011)."

HUNTINGTON ALLOYS CORPORATION IS AN ACCREDITED INDEPENDENT NADCAP MATERIALS TESTING LABORATORY VIA CERTIFICATE NUMBER 127805 (EXPIRES APRIL 30, 2011) FOR ALL TESTING SPECIFIED IN THE SCOPE OF ACCREDITATION.

MATERIAL PRODUCED UNDER QA SYSTEM DOCUMENTED IN HUNTINGTON ALLOYS CORP QA MANUAL REVISION 48, DATED 9/4/2009

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES:

W.E. BOLEN, P.D. CUSTER, M.A. MORRISON, P. WAUGH, D.K. MILLER

