

# M6100BG

HUNTINGTON ALLOYS CORPORATION  
 A Special Metals Company  
 HUNTINGTON, WEST VIRGINIA 25705-1771

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SOUTHERN U.S.

SHIP TO  
CHARGE TO

## CERTIFIED MATERIAL TEST REPORT No. 32160

HA ORDER NO./ITEM 100048663 1	DATE 05/01/12	PAGE 1	OF 2
QUANTITY 4790 LBS	INSPECTED BY HA/SMC		
CHARGE ORDER NO. 88868X	MARK ORDER NO. 88868X-11051751100		
DESCRIPTION OF MATERIAL SHIPPED MONEL ALLOY 400 12.0000 IN 120 168 IN NOR	HOT FIN RND ROUGH T STR REL		

**NEW WEST METALS INC**

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. 8/08

\*\*\*\*\*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 NO ADDENDA \ UNS: N04400  
 ASTM B 564-10 CHEM ONLY  
 ASME SB-564 2010 EDITION NO ADDENDA CHEM ONLY  
 US FED GO H-261D AM 2 CL A PM 1 MARKING WAIVED  
 NACE MR0175-ISO 15156-3 (2009) \ NACE MR0103-2007  
 QUALITY SYSTEM CERTIFICATION: ISO 9001:2008 (ABS-QE CERT. 30125);  
 EN 10 204/DIN 9048 (TYPE 3.1)

### CHEMICAL ANALYSIS (WT. %)

HEAT#	C	MN	FE	S	SI	CU	NI	AL	CO
	P	PB/PPM	SN/PPM	ZN/PPM	NI+CO				
M6100BG	0.16	1.04	2.48	0.001	0.29	29.62	66.30	0.06	0.04
	0.010	4.9	5.8	4.0	66.34				

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	GRAIN SIZE	YIELD STRENGTH	TENSILE STRENGTH	ELONGATION	R/A	DEC
				2XPSI	PSI	2"	%	F
				X 100	X 100			
M6100BG 11	1 PC							
ROOM TEMP-HRB	-AS SHIPPED	80.4		0439	0876	41.0	59.6	
PIECE#	11							

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.

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