

M33N3BG

REV. 004

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

HUNTINGTON ALLOYS  
A Special Metals Company  
HUNTINGTON, WEST VIRGINIA 25720

SOUTHERN U.S.

CERTIFIED MATERIAL TEST REPORT		NO.	65261
HA ORDER NO./ITEM	100036919 J	DATE	07/29/08
QUANTITY	2900 LBS	INSPECTED BY	HA/S/MC
CHARGE ORDER NO.	73452	MARK ORDER NO.	73452 5-051759000
DESCRIPTION OF MATERIAL SUPPLIED	MONEL ALLOY 400 HOT FIN RND ROUGH T STR REL 9.0000 IN 120-168 IN NOM		

THIS IS TO CERTIFY THAT ALL SAMPLES SUBMITTED, ANALYZED AND TESTED HAVE BEEN RETURNED TO THE CUSTOMER IN ACCORDANCE WITH THE ORDER AND SPECIFICATIONS OF THE ORDER. THE TEST REPORT REPRESENTS THE ACTUAL ATTRIBUTES OF THE MATERIAL FURNISHED AND THE VALUES SHOWN ARE CORRECT AND TRUE TO THE MATERIALS SUPPLIED BY THIS CERTIFICATE IS ONLY VALID FOR THE MATERIALS AND CONDITIONS SPECIFICALLY IDENTIFIED HEREIN. ALL OTHER TESTS AND CONDITIONS ARE SUBJECT TO CONTRACT TERMS AND CONDITIONS. THIS CERTIFICATE IS NOT VALID FOR CONTRACT PURPOSES.

*[Signature]*  
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 164-03\ASME SB-164 2007 EDITION NO ADDENDA\  
ASTM B 564-06 CHEMISTRY ONLY\  
ASME SB-564 2007 EDITION NO ADDENDA CHEMISTRY ONLY\  
US FED QQ-N-281D AM 2 CL A FM 1 MARKING WAIVED\  
QUALITY SYSTEM CERTIFICATION: ISO 9001:2000 (ABS-QE CERT. 30125);  
EN 10 204/DIN 50049 (TYPE 3.1)

HEAT#	CHEMICAL ANALYSIS (WT. %)									
	C	P	MN	FE	S	SI	NI	AL	CO	
M33N3BG	0.14	0.95	0.98	1.98	0.002	0.20	33.13	63.53	0.03	0.03
	0.006	4.1	<0.1	3.2	63.56					

TO CONVERT PPM TO WT.%, MOVE DECIMAL POINT FOUR PLACES TO THE LEFT.  
MELT METHOD: AIM + ELECTROSLAG REMELTED

MECHANICAL PROPERTIES

HEAT/LOT	QUANTITY	HARDNESS	GRAIN SIZE	YIELD TENSILE	TENSILE	WELG	R/A	DEG
M33N3BG 12	1 PC					2"	%	F
ROOM TEMP-HRB	-AS SHIPPED	81.3	0505	0852	39.1	68.1		
PC #: 12								

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

NO WELDING OR WELD REPAIR WAS PERFORMED.

MATERIAL HEAT TREAT: STR REL AT 1100 DEG. F. FOR 1 HOUR. AIR COOLED.

COUNTRY OF ORIGIN: MELTED AND MANUFACTURED IN THE USA

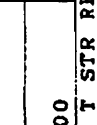
HEAT# M33N3BG12  
TRACER# 060378

REV 604

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DESCRIPTION	QUALITY CERTIFICATION REPRESENTATIVE				
9.0000 IN 120-168 IN NOM					
MONEL ALLOY 400 HOT FIN RND ROUGH T STR REL					

THIS IS TO CERTIFY THAT ALL REPORTED ANALYSIS, MEASUREMENTS AND TESTS WERE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TEST REPORT. THE ACTUAL ANALYSES OF THE MATERIAL INSPECTED AND THE VALUES SHOWN ARE CORRECT AND TRUE TO THE MATERIAL DESCRIBED BY THIS CERTIFICATE. ALL COMPANY POLICY AND ALL OTHER APPLICABLE REQUIREMENTS, AS SET FORTH BY OTHER TEST METHODS, HAVE BEEN MET IN ACCORDANCE WITH THE SPECIFIED CERTIFICATION REQUIREMENTS.

VISUAL AND DIMENSIONAL EXAMINATION SATISFACTORY.

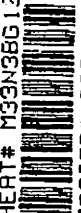
MATERIAL, WHEN SHIPPED, IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPHA SOURCE, & LOW MELTING ELEMENTS.

"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 97/23/3C (PRESSURE EQUIPMENT DIRECTIVE), ANNEX 1, CHAPTER 4.3 PER ABS GROUP LTD CERTIFICATE 008 (EXPIRES AUGUST 2008)."

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES:

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

HEAT# M33N38G12  
  
 TRACER# 060378