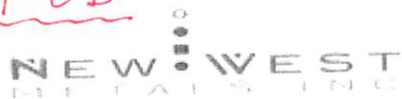


New West  
 PO 76995  
 WO 5102  
 3225  
 6 FOF 40  
 9" OD

M50P6BG

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

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



<b>CERTIFIED MATERIAL TEST REPORT</b>		<b>No. 30299</b>	
HA ORDER NO./ITEM 300023989 1	DATE 03/27/12	PAGE 1	OF 2
QUANTITY 3170 LBS	INSPECTED BY HA/SMC		
CHARGE ORDER NO. 26967	MARK ORDER NO. 26967		
DESCRIPTION OF MATERIAL SHIPPED NONEL ALLOY 400 9.0000 IN 120-168 IN NOM	HOT FIN RND ROUGH T STR REL		

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. B/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 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 WAIVED\  
 NACE MR0175-ISO 15156-3 (2009)\  
 QUALITY SYSTEM CERTIFICATION: ISO 9001:2008 (ABS-QE CERT. 30125);  
 EN 10 204/DIN 50049 (TYPE 3.1)

CHEMICAL ANALYSIS (WT. %)

HEAT#	C P	MN PB/PPM	FE SN/PPM	S ZN/PPM	SI NI+CO	CU	NI	AL	CO
M50P6BG	0.13 0.008	1.02 3.3	1.58 2.9	0.001 3.8	0.26 64.86	32.07	64.83	0.07	0.03

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

HEAT/LOT	QUANTITY	HARD NESS	GRAIN SIZE	YIELD .2%PSI X 100	TENSILE PSI X 100	%ELG 2"	R/A %	DEG F
M50P6BG 12 ROOM TEMP-HRB PC# 12	1 PC -AS SHIPPED	80.0		0435	0854	44.6	73.5	

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

NO WELDING OR WELD REPAIR WAS PERFORMED.

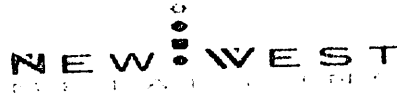
MATERIAL HEAT TREAT: STRESS RELIEVE AT 1100 DEG. F. FOR 1 HOUR

COPY

Scanned  
 Bc

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

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



<b>CERTIFIED MATERIAL TEST REPORT</b>		<b>No.</b>	<b>30299</b>
HA ORDER NO./ITEM	DATE	PAGE	OF
300023989 1	03/27/12	2	2
QUANTITY	INSPECTED BY		
3170 LBS	HA/SMC		
CHARGE ORDER NO.	MARK ORDER NO.		
26967	26967		
DESCRIPTION OF MATERIAL SHIPPED	HOT FIN END ROUGH T STR REL		
	NONEL ALLOY 400 9.0000 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. 8/08

THEN AIR COOLED.

THIS REPORT SUPERSEDES OUR REPORT DATED 03/04/12, CNTR 29258, 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

COPY