

M25P5BG

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.

CORROSION MATERIALS INC 2262 GROOM RD BAKER LA 70714		CERTIFIED MATERIAL TEST REPORT		No. 16187	
CORROSION MATERIALS INC 2262 GROOM RD BAKER LA 70714		HA ORDER NO./ITEM 100047931 1	DATE 06/02/11	PAGE 1	OF 2
QUANTITY 3122 LBS		INSPECTED BY HA/SMC			
CHARGE ORDER NO. 88106X		MARK ORDER NO. 88106X-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 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\
ASTM B 564-06 CHEM ONLY\
ASME SB-564 2010 EDITION NO ADDENDA CHEM ONLY\
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)

UNS: N04400

CHEMICAL ANALYSIS (WT. %)

HEAT#	C	MN	FE	S	SI	CU	NI	AL	CO
	P	PB/PPM	SN/PPM	ZN/PPM	NI+CO				
✓ M25P5BG	0.14	0.93	1.40	0.001	0.27	31.85	65.31	0.07	0.02
	0.008	4.5	1.7	15.1	65.33				

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	GRAIN	YIELD	TENSILE	YELG	R/A	DEG
		NESS	SIZE	.2%PSI	PSI	2"	%	F
		X 100 X 100						
M25P5BG 13	1 PC.							
ROOM TEMP-HRB	-AS SHIPPED	79.2	0444	0857	42.5	70.2		
PC:#13.								

HEAT#. M25P5BG 13
TRACER# 648031

YIELD STRENGTH WAS DETERMINED USING A STRESS STRAIN CURVE

NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.

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

Certificate of Compliance with NACE specs to be sent by Enco.
attached aug. 10 BB

Bel

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AIR COOLED.

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 REV. 49, DATED 2/17/2011

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

D.K. Miller

HEAT# M25P5BG13

 TRACER# 648031

Bel