



3200 Riverside Drive, Huntington, West Virginia 25705-1771 USA Tel: +1.304.526.5100 Toll-Free in the USA: 1.800.334.4626 Fax: +1.304.526.5643 info@specialmetals.com

Certificate No. N30647-00

Dated

09-FEB-14

CERTIFIED MATERIALS TEST REPORT

Page No.

1 / 4

Note: The recording of false, fictitious or fraudulent statements on entries on this document may be punishable as a falony under federal statute.

This report relates only to the item(s) tested and may not be reproduced except in full.

Customer

ROLLED ALLOYS INC 125 W STERNS RD TEMPERANCE 48182-0310

Ship To ROLLED ALLOYS INC

125 W STERNS RD TEMPERANCE

MI

48182-0310

HEAT * NX0830AG

Sales Order Number 100059780 / 1.1

Purchase Order Number

0108017

Mark Order Number

Material Heat / Lot Identity

0108017

NX0830AG SM91A

UNS Number

N06625

Material Description

INCONEL alloy 625, EAF-AOD-ELECTROSLAG REMELTED,, , CR SHEET, PICKLED, ANNEALED, .1250, 48.0000, 150.0000, IN 19 PCS 5304 LBS

Specifications

SAE AMS 5599G/ ASME SB-443 2013 EDITION GR 1/ HONEYWELL EMS 95377 REV C MARKING WAIVED/ ASTM B 443-00 (2009) GR 1/ GE S-400 (10-10-2011)/ GE S-1000 (12-4-2013)/WERKSTOFF 2.4856/ NACE MR0175-ISO 15156-3 (2009) / NACE MR0103-2010/ MTS 1187-1 ISSUE 2010-07 CHEMISTRY ONLY.

				A	NALYSIS				
H Method	C % .02 C/S	NN % .09 ICP	FE % 4.31 ICP	S % .001 C/S	SI %	NI % 60.1 ICP	CR % 22.25 ICP	AL %	TI % .21
H Method	CO % .10 ICP	MO % 8.98 ICP	NB % 3.45 ICP	TA % .005	P %				



3200 Riverside Drive, Huntington, West Virginia 25705-1771 USA Tel: +1.304.526.5100 Toll-Free in the USA: 1.800.334.4626 Fax: +1.304.526.5643 info@specialmetals.com

Certificate No. N30647-00

Dated

09-FEB-14

CERTIFIED MATERIALS TEST REPORT

Page No.

2 / 4

	+TI		+TA							
H .32	2	3.4	45							
lethod										
				ANAL	rsis me	THOD LEG	END			
ICP - Induct	tively Co	upled Pl	lasma							
C/S - Carbon	n/Sulfur									
					TENSIL	E TEST				
ROOM TEMP 1					1					
TEST TEMPER	LOCATION	HARDNES	SS HARD	TYPE TE	NSILE K	31 .2% YI	ELD KSI EFF	GA LNGT	H IN ELONG	ORIENT
AN	F	98.9	HRB	13	4.8	74.4	2		47.8	TRANS
PD P A MWO UM	Director on					EATMENT				
FREATMENT	FURNACE		TEMP SCA	LE	TEMP 1 !	F TEMP 1	HOLD HOLD 1	UNITS	CHANGE 1	
ANNEAL	CAP		F		1900	1.9	MN		AC	
							2314		AC	
					OTHER	TESTS				
BEND TEST	- TRANS	LAB ME	CHANICAI							
TEST TEMPER	LOCATION	TEST VI	ERDICT	BEND F	ACTOR B	ND ANGLE	CRACK CHECK	ORTENT		
AN	F	P		21	18	30	NC	TRANS		
TOATM OFFE	1011 01000									
RAIN SIZE					TY					
TEST TEMPER	TEST ORI	ENT	AV GS	ASTM	NRM O	DUP	LOCATION			
AN	TDANGUED				_					
107	TRANSVER	25	8		NORMA	J	F			
O WELD REPAT	D UAC SCOU	252500								
O WELD REPAI OCATION LEGE										
2000		nck C =	= CENTER	F - FRO	NT H =	HEAD M	- MIDDLE T	TOE		
ALL TEST RESU	LTS ARE RE	PORTED TO	AT LEACT	. was 500	WITEE					
UNLESS OTHERW	ISE REQUIRE	ED BY PUR	CHASE OR	THE KEY	PCIPICAR	ECISION BY	THE ROUNDING	METHOD O	F ASTM E 29	
			170 00	OR SE	ECTRICAT	TON,				

BRIGHTRAY,	CORRONE	L, FERR	Y, INCOC	LAD, IN	COLOY	NCONFI	INCOTHERM,	MOONE		
WONEL, N	IILU, NILOMA	G, NIMONI	C, NIOTHER	RM, NI-SPA	IN, UDINE	& WIGGIN	INCOTHERM, are trademarks of the	he Special !	D. KOTHERM Metals group of a	, MAXO
									A. 1-1- 01 (



3200 Riverside Drive, Huntington, West Virginia 25705-1771 USA Tel: +1.304.526.5100 Toll-Free in the USA: 1.800.334.4628 Fax: +1.304.526.5643 info@specialmetals.com

Certificate No. N30647-00

Dated

09-FEB-14

CERTIFIED MATERIALS TEST REPORT

Page No.

3 / 4

COUNTRY OF ORIGIN: MELTED AND MANUFACTURED IN THE USA

THIS CERTIFICATION AFFIRMS THAT THE CONTENTS OF THIS REPORT ARE CORRECT AND ACCURATE AND THAT ALL TEST RESULTS AND OPERATIONS PERFORMED BY SPECIAL METALS CORPORATION, INC. OR ITS SUBCONTRACTORS ARE IN COMPLIANCE WITH THE MATERIAL SPECIFICATIONS AND THE SPECIFIC APPLICABLE MATERIAL REQUIREMENTS OF ASME SECTION III.

ASME QUALITY SYSTEMS CERTIFICATE QSC-328, EXPIRES 3/25/2014.

AS APPLICABLE ANY SUBCONTRACTED WORK ALSO COMPLIES WITH CUSTOMER AND ASME SECTION III, NCA 3800 REQUIREMENTS.

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 OCTOBER 31, 2014) FOR ALL TESTING SPECIFIED IN THE SCOPE OF ACCREDITATION.

MATERIAL PRODUCED UNDER QA SYSTEM DOCUMENTED IN HUNTINGTON ALLOYS CORP QA MANUAL REV. 50, DATED 4/8/2013

QUALITY SYSTEM CERTIFICATION: ISO 9001:2008 (ABS-QE CEFT. 30125); EN 10 204/DIN 50049 (TYPE 3.1)

LABORATORY IS ACCREDITED TO ISO/IEC 17025:2005 FOR MECHANICAL TESTING AND CHEMICAL ANALYSIS.

VISUAL AND DIMENSIONAL EXAMINATION SATISFACTORY.

MATERIAL, WHEN SHIPPED, IS FREE FROM CONTAMINATION BY MERCURY, RADIUM, ALPHA SOURCE, AND 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/CR EMISSION SPECTROSCOPY."

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES: W.E. BOLEN, D.K. MILLER, K.R. SMITH, G.J. BURKHEAD

CERTIFIED TESTING LABORATORY DATA SOURCE IAII AEBG VENCOR NO. 47150 M. R. B. CASE RECORD NO. : NONE

AUTHORIZED VENDOR SIGNATURE

M-6-6



3200 Riverside Drive, Huntington, West Virginia 25705-1771 USA Tel: +1.304.526.5100 Toll-Free in the USA: 1.800.334.4626 Fax: +1.304.526.5643 info@specialmetals.com

Certificate No. N30647-00

Dated

09-FEB-14

CERTIFIED MATERIALS TEST REPORT

Page No.

4 / 4

ROLLED ALLOYS QUALITY ASSURANCE APPROVED () DATE

End Of Certificate

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 figures given are in accordance with the specified contract requirements. given are in accordance with the specified contract requirements.

nd on behalf of HUNTINGTON ALLOYS CORPORATION

REV. 8/08