



HIGH TEMP METALS
SALES@HIGHTEMPMETALS.COM
12500 FOOTHILL BLVD.
SYLMAR CA 91342-6038
PHONE: (818)362-5357

CERTIFICATE OF COMPLIANCE

We certify that this material conforms to the applicable specifications as shown on this purchase order.

Customer	D&M METAL AND INDUSTRIAL SALES
Customer PO #	D20-386
HTM Work Order #	00136207
Quantity	5.000 EACH
Weight	LBS
Material Detail	200/201 NO. OF PCS: 5, TOT WGHT: 28 LBS ASTM-B-162 .510/.560 X 6.25"OD WATERJET +.187-0 HOT ROLLED, ANNEALED, DESCALED AIM ESR HEAT: NN06V2AG141 BUYR: Jordan Lawing

John Vulchev
QC Certifications Clerk

12/07/2020
Date



12060-1

HUNTINGTON ALLOYS CORPORATION
 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. 91408-00
 Dated 02-FEB-19
 Page No. 1 / 3

CERTIFIED MATERIALS TEST REPORT

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

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

Customer
 HIGH TEMP METALS
 12500 FOOTHILL BLVD
 SYLMAR
 CA
 91342-6038

Ship To
 HIGH TEMP METALS
 12500 FOOTHILL BLVD
 SYLMAR
 CA
 91342-6038

Sales Order Number	Purchase Order Number	Mark Order Number	Material Heat / Lot Identity
100071878 / 1.1	10493	12060	NN06V2AG141
			UNS Number
			N02200/N02201

Material Description

NICKEL 200/201, AIR INDUCTION MELTED-ELECTROSLAG REMELTED, , HOT ROLLED PLATE, DESCALED, ANNEALED, .5200, 48.0000, 200.0000, IN
 1 PC PLATE# P31630 1640 LBS

Specifications

ASTM B 162-99 (2014)/ ASME SB-162 2017 EDITION/ ASTM B 160-05 (2014) CHEM & MECHANICAL PROPERTIES ONLY/ ASME SB-160 2017 EDITION CHEM & MECHANICAL PROPERTIES ONLY/ SAE AMS 5553H CHEM ONLY/ GE S-400 (6-03-16)/ GE S-1000 (3-2-18)/ WERKSTOFF 2.4060/ WERKSTOFF 2.4061/ MARK PER ORDER.

ANALYSIS

	C %	MN %	FE %	S %	SI %	CU %	NI %	CO %
H	.02	.24	.01	.00001	.15	<.0001	99.4	.003
Method	C/S	ICP	ICP	C/S	ICP	ICP	ICP	ICP

ANALYSIS METHOD LEGEND

C/S - Carbon/Sulfur
 ICP - Inductively Coupled Plasma

TENSILE TEST

ROOM TEMP TENSILE - LONG | LAB | MECHANICAL
 PIECE TEST TEMPER TENSILE KSI .2% YIELD KSI EFF GA LNPTH IN RED OF AREA% ELONG% ORIENT

P31630	AN	58.9	26.4	1.4	86.2	56.1	LONG
--------	----	------	------	-----	------	------	------

ROOM TEMP TENSILE - TRANS | LAB | MECHANICAL

INCOLOY®, INCONEL®, MONEL®, NILO®, NIMONIC®, NI-SPAN-C®, UDIMET®, DURANICKEL®, 601GC®, 625LCF®, 718SPF®, 740H®, 800HT®, 945®, and 945X® are trademarks of the Special Metals group of companies



12060-2

HUNTINGTON ALLOYS CORPORATION
 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. 91408-00
 Dated 02-FEB-19
 Page No. 2 / 3

CERTIFIED MATERIALS TEST REPORT

PIECE	TEST	TEMPER	HARDNESS	HARD	TYPE	TENSILE KSI	.2% YIELD KSI	EFF GA	LNTH IN	RED OF AREA%
P31630	AN		59.2	HRB		58.2	24.6	1.4		88.3

ELONG% ORIENT
 50.7 TRANS

TREATMENT	FURNACE	HEAT TREATMENT			
		TEMP 1 F	TEMP 1 HOLD	HOLD 1 UNITS	CHANGE 1
ANNEAL	SPF	1450	30	MN	AC

NO WELD REPAIR HAS BEEN PERFORMED ON THIS MATERIAL.
 METRIC DIMS: 13.2MM X 1219MM X 5080MM
 LOCATION LEGEND: B = BACK C = CENTER F = FRONT H = HEAD M = MIDDLE T = TOE

TEST VERDICT LEGEND: P = PASS W = WAIVER

TEST TEMPER LEGEND

AN - Annealed

ALL TEST RESULTS ARE REPORTED TO AT LEAST THE REQUIRED PRECISION BY THE ROUNDING METHOD OF ASTM E 29 UNLESS OTHERWISE REQUIRED BY PURCHASE ORDER OR SPECIFICATION.

COUNTRY OF ORIGIN: MELTED AND MANUFACTURED IN THE USA. DEPART PART 252.225.7014 AND 252.225.7008 COMPLIANT. 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.

QUALITY SYSTEM MEETS REQUIREMENTS OF DIRECTIVE 2014/68/EU (PRESSURE EQUIPMENT DIRECTIVE), ANNEX 1, CHAPTER 4.3 PER ABS GROUP LTD CERTIFICATE 41734 (EXPIRES JANUARY 28, 2021)

HUNTINGTON ALLOYS CORPORATION IS AN ACCREDITED INDEPENDENT NADCAP MATERIALS TESTING LABORATORY VIA CERTIFICATE NUMBER 3200174115 (EXPIRES 31 OCTOBER 2019) FOR ALL TESTING SPECIFIED IN THE SCOPE OF ACCREDITATION. MATERIAL PRODUCED UNDER QA SYSTEM DOCUMENTED IN HUNTINGTON ALLOYS CORP QA MANUAL REV. 53, DATED 01/13/2017 QA MANUAL NOT TO IMPLY COMPLIANCE TO ASME SECTION III. COMPLIANCE MUST BE OTHERWISE STATED ON CMTR. QUALITY SYSTEM CERTIFICATION: ISO 9001:2008 (ABS-QE CERT. 30125, EXPIRES 7/31/2019); EN 10 204/DIN 50049 (TYPE 3.1)

INCOLOY®, INCONEL®, MONEL®, NILO®, NIMONIC®, NI-SPAN-C®, UDIMET®, DURANICKEL®, 601GC®, 625LCF®, 718SPF®, 740H®, 800HT®, 945®, and 945X® are trademarks of the Special Metals group of companies

EF595



12060-3
HUNTINGTON ALLOYS CORPORATION
3200 Riverside Drive, Huntington, West Virginia 25705 1771 USA
Tel: +1.304.526.5100 Toll Free in the USA: 1.800.334.4626
Fax: +1.304.526.6643 info@specialmetals.com

Certificate No. 91408-00
Dated 02-FEB-19
Page No. 3 / 3

CERTIFIED MATERIALS TEST REPORT

QUALITY SYSTEM CERTIFICATION: AS9100D:2016, EN9100D:2016, JISQ9100:2016 and ISO9001:2015
(ABS-QE CERT 56476 EXPIRES 1/28/2021)

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/OR EMISSION SPECTROSCOPY."

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES:

W.E. BOLEN, K.A. SMITH, V.A. POWELL, B.K. VASS, ROBERT D. DILLE, G.J. BURKHEAD

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.	Signed
	 For and on behalf of HUNTINGTON ALLOYS CORPORATION <small>Authorized Signature</small>

REV. 8/08

INCOLOY®, INCONEL®, MONEL®, NILO®, NIMONIC®, Ni-SPAN-C®, UDIMET®, DURANICKEL®, 601GC®, 625LCF®, 718SPF®, 740H®, 800HT®, 945®, and 945X® are trademarks of the Special Metals group of companies

EF595