INVOICE



HIGH TEMP METALS

SALES@HIGHTEMPMETALS.COM 12500 FOOTHILL BLVD. SYLMAR CA 91342-6038

PHONE: (818)362-5357

PAGE 1

INVOICE DATE 10/08/2019

INVOICE NO 00205390

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O SUPER MATERIALS ONE MEMBER CO
L 187/7 DIEN BIEN PHU STREEET

D DA KAO WARD DISTRICT 1

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SUPER MATERIALS ONE MEMBER CO
1 187/7 DIEN BIEN PHU STREET

P DA KAO WARD DISTRICT 1

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O TOTAL DUE

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SLS 1	SLS 2	DUE	DATE	DIS	C DUE DA	TE C	ORDER N	IO OR	DER DAT	E SHIP DATE	SHIP NO
BEN		10/0	8/2019				0012683	38 1	0/08/2019		
TERMS C	ESCRIPTION	ON	CUSTO	CUSTOMER P.O.NUMBER				S	HIP VIA		
ADVANCE	PYMT		300919	9			SKYLINE	FREIGH	НT		
	ITEM ID			TX CL	UNIT OF MEASURE	ORI	DERED	SHIF	PPED	UNIT PRICE	EXTENSION
AMS 5536 .120/.130 SHEAR TO COLD ROI PICKLED I	ITEM ID TX UNIT OF MEASURE 3XS0.125 00 LBS PCS: 9 WEIGHT: 498 LBS 336P UNS-N-06002 30 x 36 x 40 TOL. +/125" ROLLED ANNEALED D EF/AOD ESR ZZ8464XG-SP81A : Anh Bui EACH		45	SKYLINE FREIGHT RDERED SHIPPED 498.000 1.000 1.000			225.00				
										Subtotal :	7834.44
TAXAB	LE	NON	Γ A XABLE	=	FRE	IGHT	S	ALES T	АХ МІ	SC CHARGE	TOTAL
Amount Pa	.00 aid: MSDS with	7	834.44 834.44 ng List a	nd In	Ne voice	.00 et Due:		.0		.00	7834.44



HIGH TEMP METALS

SALES@HIGHTEMPMETALS.CON BATCH CODE 12500 FOOTHILL BLVD.

SYLMAR CA 91342-6038 PHONE: (818)362-5357 FAX: (818)362-9884

OPEN

PACKING LIST

ORDER NUMBER	ORDER DATE	PAGE
00126838	10/08/2019	1
CUSTON	ER P.O.NUMBER	
	300919	

S SUPER MATERIALS ONE MEMBER CO

Н 187/7 DIEN BIEN PHU STREET

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SLS 1	SLS 2	LOCATIO	N	SHIP VIA	1	PACKING LI NO.	IST	REQUESTED SHIP DATE	ACTUAL SHIP DATE
BEN		1	S	KYLINE FRE	IGHT			10/15/2019	10/08/2019
	ITEM ID		UNIT OF MEASURE	BIN	ORD	ERED		SHIPPED	BACK ORDER
Hast 2 NO. O TOTA AMS 5 .120/. SHEA COLD PICKL HEAT BUYE	38XS0.125 X DF PCS: 9 L WEIGHT: 5536P UNS- 130 x 36 x R TOL. +/ ROLLED AN ED EF/AOD # ZZ8464X0 R: Anh Bui	-N-06002 40 125" NNEALED ESR	LBS			498.000		498.000	
002 CUT Cuttin	ng Charge		EACH			1.000		1.000	

		2000	2000	
88 88 1	rin	W 2388	2000	 200
88 100	8888			

Hig 125	ORTER (Name and address including ZI ph Temp Metals 500 Foothill Blvd. mar, CA 91342	·		SHIPPER'S LETTER OF INSTRUCTIONS								
	RTER'S EIN (IRS) NO. 2821183	c. PARTIES TO TE	RANSACTION Unrelated		2. DATE OF SEXPORT 10/08/2019 3. BILL OF LADING/ AIR WAYBILL NO.							
4a. ULTI Sup 201 Hie VIE	MATE CONSIGNEE per Materials One Member Co 1/15 Le Van Viet Street p Phu Ward, Ho Chi Minh Cit ETNAM RMEDIATE CONSIGNEE	D.	Unrelated	PO# 30	REFERENCE 00919 12683-7/	8	I					
	ARDING AGENT YLINE FREIGHT (AIR)			6. POINT (STATE) OF ORIGIN OR FTZ NO. 7. COUNTRY OF ULTIMATE DESTINATION								
8. LOADI	NG PIER (Vessel only)	9. MODE OF TRAI	NSPORT (Specify)	CA		SH	IIPPER N	VIETNAM NUST CHECK				
12. PORT	OF UNLOADING (Vessel and air only) PER REQUESTS INSURANCE Yes No AMOUNT:	11. PORT OF EXP 13. CONTAINERIZ Yes \$ 10,041		SHIPPEI	LLECT D \$	JCTIONS IN CA	AIR OCE	DIRECTIONS DURING TO DELIVER AS C	SOLIDATE			
SCHEDU	LE B DESCRIPTION OF COMMODITIES	} (Use Colum	nns 17-19)				SHIPPE	R'S NOTE:	VALU E (U.S. dollars,			
15. MARK D/F (16)	(S AND NOS. AND KINDS OF PACKAGES SCHEDULE B NUMBER (17)	CHEC		UNITS (Kilos)		SCHEDU DO NOT	RE UNCERTAIN OF THE LE B COMMODITY NO. TYPE IT IN - WE WILL ETE WHEN PROCESSING.	omit cents) (Selling price or cost if not sold) (20)				
D	Nickel Alloy Sheets 7506.20.1500 Dims: 47x41x8		SKID		595Lbs	·		E FORWARDED TO YOU MENT DESCRIBED /IA:	\$7,834 USD			
D	Nickel Alloy Sheets 7506.20.1500 Dims: 50x8x2		PKG		48Lbs/2	22Kg	YO OTH (LIS TRUCK RECEIP NUMBE	\$2,207 USD				
	DATED LICENSE NO./GENERAL LICENSE S	YMBOL .			When require	d)		SIGN THE FIRST EXPORT DEC N AND INK	LARATION IN BOX 23			
	authorized officer or		exporter authorizes		der named	DOCUMENTS						
24. I certi understan Export De making fa laws on e	an Jose Uribe If that all statements made and all informated the instructions for preparation of this declaration." I understand that civil and crinalse or fraudulent statements herein, failing exportation (13 U.S.C. Sec. 305; 220).S.C.	and contained her document, set forth ninal penalties, inc ag to provide the	in the "Correct Way cluding forfeiture and a requested information C. Sec. 1001; 50 U.S.C	et and that I hat to Fill Out to sale, may be to or for viola C. App. 2410)	ave read and the Shipper's imposed for tion of U.S.							
Signature			Confidential - For purposes authorize Commerce (13 U.S.	d by the S		SPECIAL INSTR	UCTIONS					
Title L	ogistics Manager		Export Shipments a by U. S. Customs Export Enforcement	are subject to Service and/o	o inspection or Office of							
Date	10/08/2019											

NOTE: The Shipper or his authorized agent hereby authorizes the above named Company, in his name and on his behalf, to prepare any export documents, to sign and accept any documents relating to said shipment and forward this shipment in accordance with the conditions of carriage and the tariffs of the carriers employed. The shipper guarantees payment of all collect charges in the event the consigned refuses payment. Hereunder the sole responsibility of the Company is to use reasonable care in the selection of carriers, forwarders, agents and others to whom it may entrust the shipment.



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. 68797-00

Dated

10-JAN-17

CERTIFIED MATERIALS TEST REPORT

1 / 4

Note: The recording of false, fictitious or fraudulent statements on 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

100066923 / 1.1

8988

13448

ZZ8464XG SP81A

UNS Number

N06002

Material Description

INCONEL alloy HX, EAF-AOD-ELECTROSLAG REMELTED, , CR SHEET, PICKLED, SOL TR, .1250 X 36.0000, 120.0000, IN 25 PCS 4140 LBS

Specifications

SAE AMS 5536N/ ASTM B 435-06/ ASME SB-435 2015 EDITION/ GE B50T83 S3/GE B50A436C REV A/ GE S-400 (6-03-16)/ GE S-1000 (9-6-16)/ NACE MR0175-ISO 15156-3 (2015)/ NACE MR0103-2012/ P&W MCLM F-17 REV C / P&W MCLM F-14 REV B/ PWA 300BP/ WERKSTOFF 2.4665/ MARK PER ORDER.

ANALYSIS

	C %	MN %	FE %	S %	SI %	CU %	NI %	CR %	AL %
Н	.08	.51	18.65	.0004	.32	.22	47.3	22.39	.13
Method	c/s '	ICP '	ICP	C/S ·	ICP	ICP	ICP '	ICP '	ICP
	TI %	CO %	MO %	В %	Р %	W %			
Н .	.02	.72	8.51	.002	.016	.60			
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HUNTINGTON ALLOYS CORPORATION

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Method ICP ICP ICP ICP TCP TCP ANALYSIS METHOD LEGEND ICP - Inductively Coupled Plasma C/S - Carbon/Sulfur TENSILE TEST ROOM TEMP TENSILE - TRANS|LAB|MECHANICAL TEST TEMPER LOCATION HARDNESS HARD TYPE TENSILE KSI .2% YIELD KSI EFF GA LNGTH IN ELONG% ORIENT 92.4 HRB 119.0 55.9 CREEP TEST STRESS RUPTURE - TRANS|LAB|MECHANICAL TEST TEMPER LOCATION TEMPERATURE F INITIAL STRESS PSI TEST ORIENT RUPTURE LIFE HRS ELONGATION% SA 16500 TRANS 60.4 128.9 HEAT TREATMENT TREATMENT FURNACE TEMP SCALE TEMP 1 F TEMP 1 HOLD HOLD 1 UNITS CHANGE 1 SOL TRT CAP 2150 3.2 MN AC OTHER TESTS BEND TEST - TRANS|LAB|MECHANICAL

BEND FACTOR BEND ANGLE CRACK CHECK ORIENT

TRANS

180

CERTIFIED MATERIALS TEST REPORT

GRAIN SIZE MEASUREMENT|LAB|METALLOGRAPHY

P

TEST TEMPER LOCATION TEST VERDICT

SA

TEST TEMPER TEST ORIENT AV GS ASTM NRM or DUP LOCATION

SA TRANSVERSE 6.5 NORMAL F

INTERGRANULAR ATTACK TEST|LAB|METALLOGRAPHY

TEST TEMPER LOCATION VERDICT SURFACE COND MAGNIFICATION TEST ORIENT

SA F P UNETCHED 500X LONG

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13448



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. 68797-00

Dated

10-JAN-17

CERTIFIED MATERIALS TEST REPORT

Page No.

3 / 4

PRODUCED & CONTROLLED TO PWA MCLM-F17 REQUIREMENTS / TESTING IN ACCORDANCE WITH PWA MCLM F-23 NO WELDING OR WELD REPAIR WAS PERFORMED.

DODD-FRANK ACT COMPLIANT. .

METRIC DIMS: 3.17MM X 914MM X 3048MM

LOCATION LEGEND: B = BACK C = CENTER F = FRONT H = HEAD M = MIDDLE T = TOE

TEST VERDICT LEGEND: P = PASS W = WAIVER

TEST TEMPER LEGEND

SA - Solution anneal

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. DFARS 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 97-23/EC (PRESSURE EQUIPMENT DIRECTIVE), ANNEX 1, CHAPTER 4.3 PER ABS GROUP LTD CERTIFICATE 41734 (EXPIRES JULY 28, 2017).

HUNTINGTON ALLOYS CORPORATION IS AN ACCREDITED INDEPENDENT NADCAP MATERIALS TESTING LABORATORY VIA CERTIFICATE NUMBER 3200165734 (EXPIRES APRIL 30, 2018) FOR ALL TESTING SPECIFIED IN THE SCOPE OF ACCREDITATION. MATERIAL PRODUCED UNDER QA SYSTEM DOCUMENTED IN HUNTINGTON ALLOYS CORP QA MANUAL REV. 52, DATED 02/01/2016 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); 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/OR EMISSION SPECTROSCOPY.""

AUTHORIZED QUALITY CERTIFICATION REPRESENTATIVES:
W.E. BOLEN, D.K. MILLER, K.R. SMITH, V.A. POWELL, S.E. LEER, K.BORSODI, ROBERT D. DILLE, ROBERT SMITHSON

13448



HUNTINGTON ALLOYS CORPORATION

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Certificate No. 68797-00

Dated

10-JAN-17

CERTIFIED MATERIALS TEST REPORT

Page No.

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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.

REV. 8/08

NO/ 1/

For and on behalf of HUNTINGTON ALLOYS CORPORATION Authorized Signature



Cynthia Lockhart Specifications & Order Verifications Supervisor 3200 Riverside Dr. Huntington, WV 25705 304-526-5070 clockhart2@specialmetals.com

Date: August 7, 2019

Re: RECERTIFICATION

Customer: High Temp Metals

This document is to certify that INCONEL alloy HX sheet and plate supplied to High Temp Metals by SMC Huntington, WV and certified to SAE AMS 5536N also meets the requirements of SAE AMS 5536P except marking.

The above information is true and accurate as certified by the person stated below.

Cynthia Lockhart

Cynthia Lockhart

Specifications & Order Verifications Supervisor

SMC Huntington



CERTIFICATE OF COMPLIANCE

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

Customer	SUPER MATERIALS ONE MEMBER CO
Customer PO #	300919
HTM Work Order #	00126838
Quantity	498.000 LBS
Weight	LBS
Material Detail	Hast X
	NO. OF PCS: 9
	TOTAL WEIGHT: 498 LBS
	AMS 5536P UNS-N-06002
	.120/.130 x 36 x 40
	SHEAR TOL. +/125"
	COLD ROLLED ANNEALED
	PICKLED EF/AOD ESR
	HEAT# ZZ8464XG-SP81A
	BUYER: Anh Bui

J'//~	10/08/2019
John Vulchev	Date

QC Certifications Clerk

INVOICE



HIGH TEMP METALS

SALES@HIGHTEMPMETALS.COM 12500 FOOTHILL BLVD. SYLMAR CA 91342-6038

PHONE: (818)362-5357

PAGE 1

INVOICE DATE 10/08/2019

INVOICE NO 00205391

SMOM00

S O SUPER MATERIALS ONE MEMBER CO 187/7 DIEN BIEN PHU STREEET

D DA KAO WARD DISTRICT 1

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SUPER MATERIALS ONE MEMBER CO 187/7 DIEN BIEN PHU STREET

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SLS 1	SLS 2	DUE	DATE	DIS	C DUE DA	TE	ORDER N	0 0	RDER DATE	SHIP DATE	SHIP NO
BEN		10/0	8/2019				0012683	7	10/08/2019		
TERMS D	ESCRIPTION	NC	CUSTO	MER P.O.NUMBER					SHIP VIA		
ADVANCE	PYMT		30091				SKYLINE	FREI	GHT		
	ITEM ID			TX CL	UNIT OF MEASURE	OF	RDERED	SH	IPPED (JNIT PRICE	EXTENSION
L605(HS NO. OF PO TOTAL W AMS 5537 .385/.425 HOT ROLI DESCALE HEAT# 18 BUYER: A	8837L605P0.375 5(HS 25) OF PCS: 1 TAL WEIGHT: 37 LBS S 5537J UNS-R30605 5/.425 x 5.625 x 48 T ROLLED ANNEALED SCALED VIM ESR AT# 1860-5-1436 YER: Anh Bui			00	EACH		1.000	3	1.000	40.00	2167.09 40.00
									S	Subtotal :	2207.09
TAXAE	3LE	NON.	TAXABL	E	FRE	IGHT	SA	ALES	TAX MIS	C CHARGE	TOTAL
Amount P	.00 aid: MSDS with	2	2207.09 2207.09 ing List a	ınd Ir	Ne ivoice	0 e:		.00	.00	2207.09	



HIGH TEMP METALS

PHONE: (818)362-5357 FAX: (818)362-9884

SALES@HIGHTEMPMETALS.CON BATCH CODE 12500 FOOTHILL BLVD. SYLMAR CA 91342-6038

OPEN

ORDER NUMBER	ORDER DATE	PAGE
00126837	10/08/2019	1
CUSTOM	ER P.O.NUMBER	
	300919	

PACKING LIST

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SLS 1 SLS	2 LOCATIO	NC	SHIP VIA		PACKING LIS NO.	REQUESTED SHIP DATE	ACTUAL SHIP DATE
BEN	1	S	KYLINE FRE	IGHT		10/15/2019	10/08/2019
ITEM	ID	UNIT OF MEASURE	BIN	ORD	ERED	SHIPPED	BACK ORDER
	1 HT: 37 LBS INS_R30605 .625 x 48 ANNEALED IM ESR .5_1436	LBS			37.000	37.000	
002 PKG Packaging C	HEAT# 1860-5-1436 BUYER: Anh Bui 002 PKG Packaging Charge				1.000	1.000	

						_		T				
ころが	al nue 902	Bun	, AS9100					BUTT END *01				
COPY /504/2	Haynes International 1020 West Park Avenue PO Box 9013 Kokomo, Indiana, 46902	Product Description • Description Produit • Material Beshreibung 0.425) x 48 x 144 219 WM x 3657 MM	HAYNES(R) 25 ALLOY PLATE Nadcap Materials Testing Accredited GE# 19762, S400 21/72014, S1000 12/4/2013, EN 10204 3.1, AS9100				M	14.80		BUTT END *01		
CUSTOMER COPY	H _z 102 Kok	ption Produi 4 MIM	ATE ccredite 2/4/2013.				>		Ni+Mo			
	r	48 x 144 x 3657	OY PL sting A				Τi		Ni+Co			
	NE	roduct Descri 0.425) X 119 MIM	25 ALI rials Te				Si	0.25	Al+Ti			
	HAVNE	Product Description • Description Pro 0.395 (0.385/0.425) x 48 x 144 10.0 MM x 1219 MM x 3657 MM	HAYNES(R) 25 ALLOY PLATE Nadcap Materials Testing Accredited GE# 19762, \$400 2/7/2014, \$1000 12/4/2013, E			Se	s	<0.002	Ca			
		0.395 10.0 N	HAY Nade GE# 19	T		ische Analy	Ъ	0.007	Z			
	ages ages Seiten 3			Quantity Shipped Quantitie Expediee	2 PC	Chemical Analysis • Analyse Chimique • Chemische Analyse	ï	10.10	Ag			
50	Pages of Pages Page de Pages Anzahl der Seiten I Of 3			J.		nalyse Chim	Mo		Y			
SZEUGNIS		INC		Quantity Ordered Quantie Commandee Bestellemenge		Analysis • A	Mn	1.52	Mg		10/7/2015	
· WERKS	Report No. Rapport No Zeugnis Nr 20151007025	ETALS	ISA	Quan Quan E	2 PC	Chemical,	Fe	2.50	Pb			
CERTIFIE	Repor Rappo Zeugn 201510	nataire - Beste EMP M OOTHI	R 26038 U				ਹੌ		C+N-CP/9			
)'ESSAIS		Ship To Destinataire · Bestellmenge HIGH TEMP METALS INC 12500 FOOTHILL BLVD	SYLMAR CA 913426038 USA				ඊ	20.50	La			
APPORT I			<u> </u>				රී	BAL	Se		olt	*
ESTS • R	Customer Reference Reference Client Kundenbestelldaten 8248						Cb+Ta (Nb+Ta)	·	Bi		: Jessica H	3
TON OF T		₹C			5759, L		ت ت	0.109	Zr		nigt Durch	
CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS	Date Entered Date De Commande Bestelldatum 07/20/15	rals II BLVD	4	zifikation	BRe; AMS		В		Ta		r • Beschei	70
CE	Date Date De Beste 07//	THILL	7SA 8E0	fication • Spe	R9000:SA		A		Cb(Nb)		Certifie Pa echnician	ر چ
	Sales Order No Reference Commande Bestellungs Nr 815713001-0	Sold To Client Bestellaranschrift HIGH TEMP METALS INC 12500 FOOTHILL BLVD	SYLMAR CA 913426038 USA	Specification • Specification • Spezifikation	AMS 5537, H; RR9000:SABRe; AMS 5759, L	Heat Number	Numero De Coulec Charge Nr	1860 5 1436		1860 5 1436	Certified By • Certifie Par • Bescheinigt Durch: Jessica Holt Certification Technician	Gremia & Hort

THE BOTA CONTANED BERDN WAS OFTANED FROM SAMPLES THAT AGE REPRESENTATIVE OF THE PRODUCTS OF THE PRODUCTS OF THE MATERIAL MEETS THE REQUIREMENT OF THE LISTED SPECIFICATIONS ON PRESENTING THE WITHOUT THE WITHOUT THE WRITTEN CONSENT OF HAVINES IN THE MATERIAL SPECIFICATION OF PALES. FALVED THE SPECIFICATION OF THE PRODUCED. EXCEPT IN FOLL. WITHOUT THE WRITTEN CONSENT OF HAVINES IN CONSENT OF HAVINES IN THE MATERIAL SPECIFICATION.

PO Box 9013 Kokomo, Indiana, 46902 1020 West Park Avenue Haynes International CUSTOMER COPY HAVINES International Pages of Pages Page de Pages Anzahl der Seiten 2 Of 3 CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS Report No. Rapport No Zeugnis Nr 20151007025 Customer Reference Reference Client Kundenbestelldaten Date Entered Date De Commande Bestelldatum 07/20/15 Sales Order No Reference Commande Bestellungs Nr 815713001-0

Stress Rupture Temperature . Essai A Charge De Rupture Zeitstandversuch %RA %RA % Elong In % Allong EN % Dehnung Hours Heures Stunden Stress Constrainte Spannung Test Essai Versuch Tensile Test at Elevated Temperature • Essai De Traction A Htc.Temp.

Warm Zugversuch
Ultimate I.m. Eleca A 19% Lim. Eleca A 19% Stricelgenze % Allong EN
Zugestigkeit 19% Stricelgenze 0.23% Stricelgenze % Delbung 898A Test Essai Versuch 1)A)L) 1)A)T) Tensile Test at Room Temperature • Essai De Traction A Temp. Ambiante • Zugversuch Bei Raum Temp. 38 % %RA %RA
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IGA Uniformity Corrosion Rate	PRW Attack Depth Corrosion Method Number Method Method Method Number May Number	PRW Attack Depth Corrosion Method Number Method Method Method Number May Number	PRW Attack Depth Corrosion Method Number Method Method Method Number May Number	Figure Mack Depth Corrosion Rate Oxidation Rate Oxidation Rate Conspiners Toughness To	IGA Uniformity Corrosion Rate Oxidation Rate Charpy Impact Test	Figure Number N	IGA Uniformity Corrosion Rate Oxidation Rate Charpy Impact Test	Americal Aged Hardness Grain Size	Grain Size Predominant Recry. Grain Unrecry. Grain Size Grain Size	97 HRBW 1)A) 4	
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Certification Technician

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THE BATA CONTAND HEADN WAS OFFANDED FROM SAMPLES THAT ARE REPRESENTATIVE OF THE PRODUCTS IN THE SUBECT SHIPMENT. THIS MATERIAL MEETS THE REQUIREMENTS OF THE LISTED FEGTECATION(S), MODIFIED BY ANY EXCEPTIONS OF PRICHASE ORDER SEQUENCES. THE PRODUCTS OF THE WITHOUT THE WRITTEN CONSENT OF HANNES INTERNATIONAL INC.
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CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIE • WERKSZEUGNIS Rapport No Zeugnis Nr 20151007025 Report No. Customer Reference Reference Client Kyndenbestelldaten Date Entered
Date De Commande
Bestelldatum
07/20/15 Sales Order No Reference Commande Bestellungs Nr 815713001-0

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CUSTOMER COPY

13042 Haynes International 920 Weet D. . PO Box 9013

Kokomo, Indiana, 46902

MELT METHOD: ELECTRIC FCE/AOD/ESR. NO WELD REPAIRS PERFORMED. ROHS COMPLIANT.

COMPLIES WITH DFARS 252.225-7014 & 225.7002-3(1)(B) WR 2.4964 MATERIAL ONLY MEETS CHEMISTRY REQUIREMENTS PER NACE MRO 103 SECTION 3.1.1.1.

All tests and inspections have been performed and results meet specification requirements. THIS MATERIAL IS FREE FROM MERCURY, CADMIUM, RADIUM, AND ALPHA SOURCE CONTAMINATION. THIS MATERIAL WAS MELTED AND MANUFACTURED IN THE UNITED STATES.

When microstructure analysis is performed, the etchant used is H2O2 and HCl. Samples were viewed at 100-500x magnification. Grain size evaluation is performed to the requirements of ASTM E112-96(2004)e2 Plate 1. Samples are prepared per ASTM E3-01. The material has been evaluated for alloy depletion. No welding performed on this material.

This material was melted and manufactured in the United States.

Stress rupture conformance is based on periodic tests (tenth heat) as described in paragraph 4.2.2. This material is capable of meeting the stress rupture requirements of AMS 5759.

This material conforms to all technical requirements of AMS 5759

Mill Orders Used: 2781571301 (2 PC)

A) 2150 °F to 2250 °F Mill February Analysis for Heat# 51436 BUTT END *01: O.E. (P,Si); LECO (C,S); XARL LINFIT (Co,Cr,Fe,Mn,Ni,W);

Certified By • Certifie Par • Bescheinigt Durch: Jessica Holt

10/7/2015

Certification Technician

Junia H. Hold



Haynes International, Inc. 1020 West Park Avenue P.O. Box 9013 Kokomo, Indiana 46904-9013 Tel: 765-456-6000 FAX: 765-456-6905 www.haynesintl.com

November 28, 2017

Mr. John Vulchev High Temp Metals 12500 Foothill Blvd. Slymar, CA 91342-6038 USA

Dear John:

A new revision of AMS 5537 has been published which is now AMS5537™ Revision J. Any material that is certified by Haynes International, Inc. to AMS 5537 Revision H, also meets the requirements of AMS5537™ Revision J, with the possible exception of any marking which was done to Revision H.

Please let me know if you have any questions.

Sincerely,

Leslie Labig

Senior Quality Engineer

Leslie K. Labig

cc: Larry Tuff Jose Rios Jeff Sipf



Haynes International, Inc. 1020 West Park Avenue P.O. Box 9013 Kokomo, Indiana 46904-9013 Tel: 765-456-6000 FAX: 765-456-6905 www.haynesintl.com

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Leslie Labig

Senior Quality Engineer

Leslie K. Labig

cc: Larry Tuff Jose Rios Jeff Sipf



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	SUPER MATERIALS ONE MEMBER CO
Customer PO #	300919
HTM Work Order #	00126837
Quantity	37.000 LBS
Weight	LBS
Material Detail	L605(HS 25)
	NO. OF PCS: 1
	TOTAL WEIGHT: 37 LBS
	AMS 5537J UNS-R30605
	.385/.425 x 5.625 x 48
	HOT ROLLED ANNEALED
·	DESCALED VIM ESR
	HEAT# 1860-5-1436
	BUYER: Anh Bui

	10/08/2019
	
John Vulchev	Date

QC Certifications Clerk