

CERTIFICATION OF TESTS • RAPPORT D'ESSAIS CERTIFIÉ • WERKSZEUGNIS

Sales Order No Reference Commande Bestellungs Nr 815713001-0	Date Entered Date De Commande Bestelldatum 07/20/15	Customer Reference Reference Client Kundenbestelldatum 8248	Report No. Rapport No Zeugnis Nr 20151007025	Pages of Pages Page de Pages Anzahl der Seiten 1 Of 3
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HAYNES
International

CUSTOMER COPY

13042

Haynes International
1020 West Park Avenue
PO Box 9013
Kokomo, Indiana, 46902

Sold To • Client • Bestellaranschrift HIGH TEMP METALS INC 12500 FOOTHILL BLVD SYLMAR CA 913426038 USA			Ship To • Destinataire • Bestellmenge HIGH TEMP METALS INC 12500 FOOTHILL BLVD SYLMAR CA 913426038 USA			Product Description • Description Produit • Material Beschreibung 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, S400 2/7/2014, S1000 12/4/2013, EN 10204 3.1, AS9100		
Specification • Specification • Spezifikation AMS 5537, H; RR9000:SABRe; AMS 5759, L				Quantity Ordered Quantité Commandée Bestellemenge 2 PC		Quantity Shipped Quantité Expédiée Liefermenge 2 PC		

Heat Number Numero De Coulée Charge Nr	Chemical Analysis • Analyse Chimique • Chemische Analyse																			
	Al	B	C	Cb+Ta (Nb+Ta)	Co	Cr	Cu	Fe	Mn	Mo	Ni	P	S	Si	Ti	V	W			
1860 5 1436			0.109		BAL	20.50		2.50	1.52		10.10	0.007	<0.002	0.25			14.80	BUTT END *01		
	Ch(Nb)	Ta	Zr	Bi	Se	La	C+N-Cb*9	Pb	Mg	Y	Ag	N	Ca	Al+Ti	Ni+Co	Ni+Mo				
1860 5 1436																	BUTT END *01			

Certified By • Certifié Par • Bescheinigt Durch: Jessica Holt
Certification Technician

10/7/2015

Jessica H. Holt

HAYNES

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Kokomo, Indiana, 46902

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[illegible]

1)	2781571301
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Jenica H. Holt

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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 3.1.1.1.1

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

Method of Chemistry 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
Certification Technician

10/7/2015

Jessica H. Holt



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,

A handwritten signature in dark ink that reads "Leslie K. Labig". The signature is written in a cursive, flowing style.

Leslie Labig
Senior Quality Engineer

cc: Larry Tuff
Jose Rios
Jeff Sipf



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