



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

J3KR64

PAGE 2

SOLD TO:

006419
AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND



SHIP TO:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND

ORDER NO.		DATE	SHIP VIA	TERMS	SHIPPING TERMS		
CPE2540		02/10/16	FEDX INTL P1 PPD	NET 30	DDP-		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
		ECCN :EAR99 CTRL#: 2014F27652 LOT#: A000036391-0000 LOT QTY: 50 Country of Origin ENGLAND VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code					
	100	EN6114K4X8 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2015C16044 LOT#: 16689205 LOT QTY: 100 Country of Origin GERMANY		EA	0	100	
		VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code					
	50	EN6114K4X9 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2014I29026 LOT#: A000044819-0000 LOT QTY: 50 Country of Origin UNITED KINGDOM		EA	0	50	
		VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code					
	10	EN6114K4Y7 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2015F19384 LOT#: 16703344		EA	0	10	
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.							

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: NORDPORTBOGEN 6, D-22848 NORDERSTEDT, GERMANY

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.



PACKING SLIP

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
<http://www.KLXAerospace.com/conditions-sale/>



Vice President of Quality



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

J3KR64

PAGE 3

SOLD TO:

006419
AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND



SHIP TO:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND

ORDER NO.		DATE	SHIP VIA		TERMS		SHIPPING TERMS		
CPE2540		02/10/16	FEDX INTL P1 PPD		NET 30		DDP-		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
		LOT QTY: 10 Country of Origin GERMANY VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code							
	5	EN6114K4Y8 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2013J27031 LOT#: 16633706 LOT QTY: 5 Country of Origin GERMANY				EA	0	5	
		VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code							
	10	EN6114K4Y9 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2014L14724 LOT#: A000046797-0000 LOT QTY: 10 Country of Origin ENGLAND				EA	0	10	
		VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code							
	50	EN6114K5X8 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2014C23993 LOT#: 16637136 LOT QTY: 50 Country of Origin GERMANY				EA	0	50	
		VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code							
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.									

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: NORDPORTBOGEN 6, D-22848 NORDERSTEDT, GERMANY

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.



PACKING SLIP

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
<http://www.KLXAerospace.com/conditions-sale/>



Vice President of Quality



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

J3KR64

PAGE 1

SOLD TO:

006419
AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND



SHIP TO:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND

ORDER NO.		DATE	SHIP VIA	TERMS	SHIPPING TERMS		
CPE2540		02/10/16	FEDX INTL P1 PPD	NET 30	DDP-		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
	1	DAN80-3-580 TARIFF: 7616.99.5090 Description LANYARD ECCN :9A991 CTRL#: 2015I29637 LOT#: ATB-14060109 LOT QTY: 1 Country of Origin GERMANY VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code		EA	0	1	
	100	EN6114K4X10 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2015I04628 LOT#: A000054947-0000 LOT QTY: 100 Country of Origin ENGLAND VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code		EA	0	100	
	50	EN6114K4X6 TARIFF: 8108.90.3060 Description HL PIN ECCN :EAR99 CTRL#: 2014I03339 LOT#: 16643887 LOT QTY: 50 Country of Origin GERMANY VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code		EA	0	50	
	50	EN6114K4X7 TARIFF: 8108.90.3060 Description HL PIN VAT exempt supply for aviation-purposes according sec. 4 no. 2 German VAT Code		EA	0	50	
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.							

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: NORDPORTBOGEN 6, D-22848 NORDERSTEDT, GERMANY

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

PACKING SLIP

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:

<http://www.KLXAerospace.com/conditions-sale/>



Vice President of Quality



Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.KLXAerospace.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: KLX Inc. • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

J3KR64

PAGE 4

SOLD TO:

006419
AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND



SHIP TO:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
SLINFOLD RH13 0AS
ENGLAND

ORDER NO. CPE2540		DATE 02/10/16	SHIP VIA FEDX INTL P1 PPD		TERMS NET 30	SHIPPING TERMS DDP-		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
<p><i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i></p> <p>*** SHIPPED 1 CTN *** # 1=CTN 1# 1 OZ.</p> <p>INVOICE#.....: J3KR64 </p> <p>ORDER#.....: A32JL4 </p> <p>CONSOLIDATE#.: 1E25XV </p> <p>* CUST VAT GB717870119</p> <p>* Shipped from Hamburg, Germany</p> <p>* KLX VAT DE815535033</p> <p>SubTOTAL : </p> <p>HANDLING : 0.00</p> <p>DISC/ALL : 0.00</p> <p>INCM FRT : 0.00</p> <p>FREIGHT : 0.00</p> <p>TOTAL : USD</p> <p>U.S. CURRENCY</p> <p>mru A32JL4 SHIPPED ON 02/10/16</p>								
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.								

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: NORDPORTBOGEN 6, D-22848 NORDERSTEDT, GERMANY

MATERIAL CERTIFICATION: KLX INC. ("KLX AEROSPACE SOLUTIONS") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. KLX AEROSPACE SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF KLX AEROSPACE SOLUTIONS IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL OF ANY ITEM WHICH IS REJECTED CONSTITUTE SATISFACTION OF ALL LIABILITY KLX AEROSPACE SOLUTIONS MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL KLX AEROSPACE SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, KLX AEROSPACE SOLUTIONS MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

PACKING SLIP

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:

<http://www.KLXAerospace.com/conditions-sale/>



KLX INC.
Nordportbogen 6
22848 Norderstedt
GERMANY

Bill To
KLX INC.
10000 NW 15th Terrace
Miami, FL 33172-2756
USA



DELIVERY NOTE 300008290

Page: 1

Contact Person: Customer Team **Email:**
Phone: **Fax:** **Date:** 11.03.15

Shipping	unfrei UPS Acc. 69A081	Customer Number: 20211121
Carrier:		Order: VS70414
Incoterms:	free carrier AFSR Hildesheim	Ship to Addr: 00010556
Remarks:	UPS Account 69A081	VAT Reg.No.: DE815535033
Your PO No.:	0ZHA30	Over/underdel.: 10%
Delivery Nbr:	1Z6758276858620439	Dock:

Line	Part No	Lot	Date	Ship Qty	UM	Net weight
1	EN6114K4X-8		29.01.15	5.095,00	St	16,30 KG
	VERI-LITE	16689205				
	prEN6116					
	EN6114K4X8					

Ctry of Origin: GERMANY HTS: 81089090 ECCN: EAR99 Not Export Controlled
PO line: 0001

16689205 5.095,00

Description	Quantity	Net Weight	Tare Weight	Gross Weight	Weight UM
Wellpappkarton 3A	1,00	16,30	0,05	16,35 KG	
Schlauchfolie schmal	4,00	16,30	0,04	16,34 KG	

All sales and deliveries shall be made exclusively in accordance with the General Terms of Sale and Delivery of Fairchild Fasteners Europe-VSD GmbH, which you can find under:
www.alcoa.com/fastening_systems/aerospace/en/info_page/terms_conditions.asp

Net weight: 16,30 KG
Total weight: 16,35 KG
Colli total: 0

CERTIFICATION OF CONFORMANCE AND AFFIDAVIT

Seller hereby certifies that the raw materials used in the performance of this contract meet the chemical and physical requirements of applicable material and/or procurement specifications.

Seller further certifies that metallurgical examinations and physical tests of finished product, when required by contract, are reported. Metallurgical and physical test reports are on file and available for examination by customer.

For actual individual physical and chemical test results, identifiable by part number, inspection lot number and material supplier's heat number for the inspection lot from which shipment was made, refer to seller's certified test report, if applicable.

Seller further certifies that dimensional, fluorescent penetrant or magnetic particle inspections have been performed as required by applicable drawings and/or specification requirements. Records of such inspections are available upon request.

The Quality Management System arrangements in respect of these supplies comply with the requirements of BAE SYSTEMS, Approval No. RALOA/00186/3 and BAE/AG/30117/MAA and Airbus SAS, Approval No. 90972 and Saab AB ISO 9002, Approval No. 2001-G.113. Fairchild Fasteners Europe - VSD GmbH holds ISO 9001:2008; EN 9100:2009 Certification and PRI/NADCAP SAE AS 7003 for Materials Testing, Approval No. 117033.

Fairchild Fasteners Europe
- VSD GmbH

Quality Assurance

Attention: The copying of extracts of this certificate is inadmissible!
Falsified, fictitious or fraudulent statements or entries may be punished as a felony under United States federal law.

Laboratory Test Report No.: B201503951

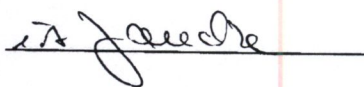
LOT NO.: 16689205

The parts contained in this shipment meet the requirements of the applicable drawings and specifications.

Inspection records are on file and are available on request of the procuring agency.

Negatives of metallurgical mounts are retained 10 years for review.

Reviewed by



Date 10.03.2015

Setup Date 10.03.2015

Customer: **KLX INC.**

Material: **Ti6AL-4V SMART COIL**

P.O.NO.: **0ZHA30**

Mat'l Spec.: **AMS4928U/AMS4967L/
VSM1365L**

Part Number: **EN6114K4X-8 Rev.P7 01.08.2010
EN6114K4X8**

Prod. Spec.: **EN6116, Rev. 01.09.10 P4;**

Quantity: **5095**

NDT: **ASTM E 1417/E1417M,
Rev.13**

Lot Quantity: **5095**

Threads: **AS8879, Rev. 01.08.04 D**

Heat. No.: **8-16-01622**

Request for Deviation No.:

HeatTreatment Spec.: **AMS2801**

Remarks: **VS70414**

Raw Material Lot. No.: **R925321**

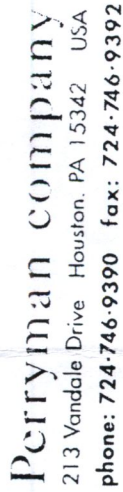
Surface: **Aluminium pigmented coating per EN4473 Typ II
Cetyl alcohol EN6117
Colour code WHITE on thread end**

Attention: The copying of extracts of this certificate is inadmissible!
Falsified, fictitious or fraudulent statements or entries may be punished as a felony under United States federal law.

Laboratory Test Report No.: B201503951

LOT NO.: 16689205

Micro Examination		Fatigue	Tensile	Shear
Sample Size	5	NA	Req. Value NA	Req. Value NA
Material Type	TI6AL-4V SMART COIL	Req. Cycles	N/DIA/N/mm ² /Loc.	N/DIA/N/mm ²
Surface Contamination	conform			
Grain Size	NA			
Macro Structure	conform			
Micro Structure	conform			
Magnification	100x			
Etching Solution:	5% HF,95% H2O dest.			
Discontinuities	conform			
Broach Cracks	none			
IGC	none			
Plate Thickness conform per Spec. see surface page 1				
Torque				
Req. Value	NA			
Sample Size				
Analyses				
Hardness ()		Specification:	Specification:	Specification:
Req. Value	NA	Machine / Model:	Machine / Model:	Machine / Model:
Sample Size		Visa:	Visa:	Visa:
Analyses		Remark:	Remark:	Remark:
Max.				
Min.				
Ø =				
σ _{n-1} =				
Remark:		Stress Durability: / NA /		
Hydrogen (ASTM E 1447, Rev. 09)		Salt Spray Testing: (NA /) Sample Size:		
Max. per Spec.: 125 ppm				
Actual: 38 ppm				



Date: 10-08-14
Weight: 1142 LBS.

Product: Ti-6Al-4V .26475/.26525" DIA. 3X COIL
ANNEALED 760 C - 2 HOURS

H: .0021

Metallographic Examination:	ASTM E 407:	Microstructure - Equiax alpha-beta	ASTM E 407:	Surface Contamination - No alpha case

Shear Results
NASM1312-13
Shear Strength, Mpa
0 90

Annealed 760 C - 2 hours

Solution treated and aged
954 C - 1 hour - WQ
538 C - 4 hours - AC

1018 1018

917 19
913 19

48 48

This is to certify that all test results conform to the specifications listed above and that all tests required were performed by Peryman Company. Attached is a copy of the Ingot Chemistry.

The test results relate only to the lots tested and are contained in the records of Perryman Company. The Certified Test Report cannot be reproduced except in full without written approval.

Zachary S. Dragan
Zachary S. Dragan
Laboratory Manager



"VSMPO-AVISMA Corporation"

1, Parkovaya St., Verkhinaya Salda, Sverdlovsk reg.,
624 760, RUSSIA
Phone (34345) 2-38-32, 2-17-66
Fax (34345) 2-47-36, 2-05-00

INSPECTION CERTIFICATE

EN 10204-3.1 AS ST00EN ISO 9001 CERT. IN D1 117 040912

CERTIFICATE № 00119Y10A date 14.01.2010 Contract: 84054169TRD annex 1
Purchaser: Tirus International SA, Switzerland. Purchaser order: US PO # 28177-RM, SA PO # 09-0003234
Quality/alloy: 6AL4V Condition of delivery: Hot Rolled, Machined & Pickled Terms of delivery: P-107 Rev. 6

Bars №	Units	Weight, (kg)	Object	Dimensions (mm) or Drawing №	Heat №	Lot №
1-20	20	3294	BAR	dia 101,6 x 3810,0 - 5303,5 (dia 4,000" x 12,5-17,4")	8-18-01822	924

Chemical Composition, %										Ti-remainder		Residuals, max, %						In part, %			
Requirement																					
AMS 4928R	Al	V	Cu	Fe	H	N	O	C	Y	Si	B	Ru	Pd	each	total	Sample	H				
P 107 Rev.6	5.75-	3.5-	max	0.10-	max	max	0.14-	max	max-	max	max	max	max	max	max	max	as-pickled	1			
	6.75	4.5	0.10	0.25	0.0055	0.02	0.17	0.03	0.005	0.10	0.003	0.005	0.005	0.10	0.30	20					
AMS 49572, AMS 4901A	6.46	3.88	0.010	0.15	0.0008	0.003	0.15	0.018	<0.001	0.011	<0.001	<0.005	<0.005	<0.10	0.076						
TOP																					
BOTTOM	6.40	4.06	0.010	0.18	0.0008	0.009	0.15	0.020	<0.001	0.012	<0.001	<0.005	<0.005	<0.10	0.078						

Requirement		Heat treatment	
0.20% proof stress MPa		T ^o , C	time
elongation %			
reduction %			

Macrostructure testing As per P-107 Rev. 6 par. 3.2.2.
Microstructure testing As per P-107 Rev. 6 par. 3.2.4

Ultrasonic inspection As per AMS 2631B ClA1. Longitudinal wave.
Immersion method. Focused transducer.

TOP
BOTTOM

We certify that, subject to acceptance or consecutive tests (if needed), the supplies detailed here were manufactured in accordance with the technical specifications of the contract, order or sub-order and that, all inspection operations and tests, having been completed, the supplies comply in every respect with the relevant particular specifications, drawings, and relevant standards and regulations in force.
Information particular to the supplies delivered:

Free from radioactive and mercury contamination
Production start-up date: 13.12.2009

Prepared by: Levina O.V.
Name: Levina O.V.
signature: O. Levina
stamp: stamp
MAR 01 2010
QV5

VAI