

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.:	OZHA30	Over/underdel.:	10%
Delivery Nbr:	1Z6758276858620439	Dock:	

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

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

[Signature]
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

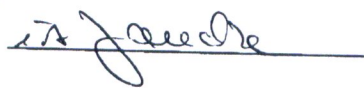
LOT NO.: 16689205

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**

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Laboratory Test Report No.: B201503951

LOT NO.: 16689205

Micro Examination Sample Size 5 Material Type TI6AL-4V SMART COIL 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	Fatigue NA Req. Cycles	Tensile Req. Value NA N/DIA/N/mm ² /Loc.	Shear Req. Value NA N/DIA/N/mm ²
Plate Thickness conform per Spec. see surface page 1			
Torque Req. Value NA Sample Size Analyses			
Hardness () Req. Value NA Sample Size Analyses Max. Min. Ø = σ _{n-1} = Remark:	Specification: Machine / Model: Visa: Remark:	Specification: Machine / Model: Visa: Remark:	Specification: Machine / Model: Visa: Remark:
	Stress Durability: / NA /		
Hydrogen (ASTM E 1447, Rev. 09) Max. per Spec.: 125 ppm Actual: 38 ppm	Salt Spray Testing: (NA /) Sample Size:		



Perryman company
213 Vandale Drive Houston, PA 15342 USA
phone: 724-746-9390 fax: 724-746-9392

CERTIFIED TEST REPORT

Customer: ALCOA FASTENING SYSTEMS / FAIRCHILD
VSD GmbH
STEVEN 3
31135 HILDESHEIM DEUTSCHLAND

Heat No: 8-16-01622
Melting Source: VSMPO, RUSSIA
Work Order No: 082448

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

Customer Order No: 7037902-151
Customer Order Date: 09-03-14
Specification: VSM-1365 Rev L, AMS 4967L, AMS 4928U

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

Chemistry: Wt % ASTM E 1447: Post processing Hydrogen Determination H: .0021

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

Mechanical Properties:

Condition	Tensile Strength Mpa	Tensile Results - ASTM E8			Shear Results NASM1312-13 Shear Strength, Mpa
		2% Yield Strength Mpa	Elongation 4D %	Reduction Of Area %	
Annealed 760 C - 2 hours	1018	917	19	48	0 90
	1018	913	19	48	
Solution treated and aged 954 C - 1 hour - WQ 538 C - 4 hours - AC	1263	1170	11	53	749 756
	1275	1179	12	52	759 755
					767 772

This is to certify that all test results conform to the specifications listed above and that all tests required were performed by Perryman 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 10/08/14
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 1000EN 10001 CERT. No 01 117 046212



CERTIFICATE № 00119Y10A

data 14.01.2010

Contract: 84054169TRD annex 1

Purchaser: Titus International SA, Switzerland

Purchaser order: US PO # 28177-RM, SA PO # 08-0003234

Quality/alloy BAL4V

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	3284	BAR	dia 101,6 x 3810,0 - 5303,5 (dia 4.000" x 12.5'-17.4')	8-16-01622	924

Chemical Composition, %										Residue, max, %		In part, %	
Ti-remainder										each	total	Sample	H
Requirement	Al	V	Cu	Fe	H	N	O	C	Y	Si	B	Ru	Pd
AMS 4928R	5,75-6,75	3,5-4,5	max 0,10	0,10-0,25	max 0,0055	max 0,02	0,14-0,17	max 0,03	max 0,005	max 0,10	max 0,003	max 0,005	max 0,005
P 107 Rev.6	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
AMS 49672, AMS 4931A	6,45	3,88	0,010	0,15	0,0008	0,003	0,15	0,018	<0,001	0,011	<0,001	<0,005	<0,005
TOP	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
BOTTOM													

Requirement	Tensile proof stress MPa	Elongation %	Reduction of area %	Heat treatment	
				T ₁ , °C	time
TOP	-	-	-	-	-
BOTTOM	-	-	-	-	-

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 Cl.A1. Longitudinal wave.

Immersion method. Focused transducer.

We certify that, subject to exceptions or concessions listed hereafter, the supplies detailed here were manufactured in accordance with the technical specifications of this 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:

specify the reference of concessions granted:

Free from radioactive and mercury contamination

Production start-up date: 13.12.2009

Prepared by

Name

signature

stamp

MAR 01 2010

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V5

V5