

2600 SKYPARK DRIVE TORRANCE. CALIFORNIA 90509-2975 TELEPHONE (310) 326-8110 • FAX (310) 784-4234 CAGE CODE 73197

CERTIFIED TEST REPORT



PREVENT FRAUD

This certificate must be reproduced in its entirety, not in part. Any alteration or misuse of this certificate, or any unauthorized rework or modification of Hi-Shear products voids all warranties and may lead to civil damages and/or criminal penalties.

This certification applies only to the part number/lot number listed in this shipment. The products identified in this certificate have been manufactured, tested and inspected in accordance with, and unless otherwise noted below, conform in all respects to the applicable drawings, specifications and/or standards. Complete reports of physical and chemical tests are on file for on-site examination.

Hi-Shear Part No .:

HL11VAZ5-4

-4

Rev.:

45 Material Lot:

1105034531 Lot No:

8022609

Customer Part No.:
Procurement Spec.:

BACB30NW5K4

Part Name:

Melt Source

AW Material: PIN Spec:

6AL-4V TITANIUM Lot Size:

64600 pcs

BPS-F-67 AL

Head Marking:

PIN Spec: HS Heat N

AMS4967J MFG Date: H15889 PO:

7/12/2011

Customer:

B/E AEROSPACE

•

Heat No:

Dynamet Oty Ship

0JAY16

ULTIMATE TENSILE STRENGTH		DOUBLE SHEAR	Niles Producer: Dynamet Qty Shipp TENSION-TENSION FATIGUE LIFE		
Strength in Pounds	Location of Fracture	Strength in Pounds	Cycles	Location of Fracture	Torsional Test:
Not Applicable		Not Applicable	Not Applicable DFARS 252.2		15 pcs. Accept Tested both directions CW & CCW meets min. Torsional Req. of 10 in. lbs.
in. Req.: ax. Req.:	lbs.	Min. Req.: Ibs. Max. Req.: Ibs.		Low Load: Ibs. High Load.: Ibs.	Reqt's: 10 in. lbs. min.

File No.		CAL EXAMINATION		HARDNESS	PROCESS
11 J 966-969	Sample Size:	Requirements:	Actual Results:	Reg: N/A	-
Macro Exam:		Proc. Spec.	N/A	Sample Size	SPECIFICATIONS
Micro Exam:	15 pcs	Proc. Spec.	Accept	- Sample Size	501 40714 5 445
	Etchant:	2% HF	сеере	_	FPI ASTM-E-1417-05e1
	Magnification:	50-500X			Heat Treat AMS-H-81200B
Threads:	15 pcs	Proc. Spec.	ACCEPT	٦	Cetyl Alcohol per HS305W and
Coating Thickness:	15 pcs	.00020005 in		1	AS87132, T-1, GR. B
Adhesion:	5 pcs	Coating Spec.	Accept	1	Aluminum Coating per BMS 10-
Broach Check: -	15 pcs	Proc. Spec.	ACCEPT	1	85R, T-1, CL. A
Head Ductility:	0 pcs	Proc. Spec.	N/A	-	Hi-Kote I Alum. Coating per HS Spec 294L
2 Hr. Salt Spray:	0 pcs	Proc. Spec.	N/A	1	
Installation Test:	0 pcs	Proc. Spec.	N/A		Actual Thickness: .00030004
Stress Durability:	0 pcs	Proc. Spec.	N/A	SUBCONTRACT PROCESS	Black ID on Thread End
Actual Aging Temp			/11	Specification: N/A	1
Hydrogen:	1 pc	125 PPM Max	40 PPM	Subcontracor:	
				Cert No.	

Parts contained in this shipment have been manufactured and inspected in accordance with FAA TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards set in the manufacture's design. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may only be done if acceptable to or approved by the administrator. Threads are manufactured and inspected in accordance with the latest revision of AS8879 and/or per applicable customer drawing.

MILL ANALYSIS

AL: 6.14 V: 4.03 C: .034 FE: .17 N: .008 O: .16 Y: < .0004 H: 0.0039 TI: BAL. Alloy verification has been performed: 05-07-11 Beta Transus: 1816°F

Authorized Signature

9/24/2012

Date

Cert A Rev. D

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HL11VAZ5-4

Rev .

Rev.:

45 Material Lot:

1105034531 Lot No:

8022609.

Customer Part No .: Procurement Spec.

HS342 AG

Material:

6AL-4V TITANIUM Lot Size:

64600 pcs

Part Name:

PIN Spec:

AMS4967J MFG Date:

7/12/2011

Customer:

B/E AEROSPACE

Head Marking:

HS Heat No:

H15889 PO:

0JAY16

Melt Source:

Producer: RTI Niles

Dynamet Oty Shipped:

33975 ncs

ULTIMATE TENSILE STRENGTH		DOUBLE SHEAR	TENSION-TENS	Torsional Test:	
Strength in Pounds	Location of Fracture	Strength in Pounds	Cycles	Location of Fracture	Torsional rest:
Not Applicable	-	Not Applicable	Not Applicable		15 pcs. Accept Tested both directions CW & CCW meets min. Torsional Req. of 10 in.lbs.
		DFAF	S 252.225.70	09	
fiin. Req.: Aax. Req.:	lbs. lbs.	Min. Req.: <u>lbs.</u> Max. Req.: <u>lbs.</u>		Low Load: <u>lbs.</u> High Load.: <u>lbs.</u>	Reqt's: 10 in. tbs. min.

	METALLURGI	CAL EXAMINATION			
File No.			9	HARDNESS	PROCESS
11 J 966-969	Sample Size:	Requirements:	Actual Results:	Req: N/A	SPECIFICATIONS
Macro Exam:		Proc. Spec.	N/A	Sample Size	S. Bell leathons
Micro Exam:	15 pcs	Proc. Spec.	Accept	7	FPI ASTM-E-1417-05e1
	Etchant:	2% HF		-	
	Magnification:	50-500X			Heat Treat AMS-H-81200B
Threads:	15 pcs	Proc. Spec.	ACCEPT	7	Cetyl Alcohol per HS305W and
Coating Thickness:	15 pcs	.00020005 in		1	AS87132, T-1, GR. B
Adhesion:	5 pcs	Coating Spec.	Accept	1	Hi-Kote I Alum. Coating per HS
Broach Check:	15 pcs	Proc. Spec.	ACCEPT	1	Spec 294L
Head Ductility:	0 pcs	Proc. Spec.	N/A	1	Actual Thickness: .00030004
2 Hr. Salt Spray:	0 pcs	Proc. Spec.	N/A	1	Black ID on Thread End
Installation Test:	0 pcs	Proc. Spec.	N/A		
Stress Durability:	0 pcs	Proc. Spec.	N/A	SUBCONTRACT PROCESS	
Actual Aging Temp			. 1//1	Specification: N/A	1
Hydrogen:	l pc	125 PPM Max	40 PPM	Subcontracor:	
			11141	Cert No.	

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Page: 1 of 1

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925 2600 • Fax: 305.507.7191 Plant Location: 10000 N.W. 15th Terrace, Miami, FL 3 2 • SITA: MIAMMCR www.KLXaerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: AJ WALTER AVIATION LTD

PURCHASE ORDER#: CP15520

QUANTITY U/M PART-NUMBER
300 EA BACB30NW5K4

CUST REF#

LOT-NUMBER

Eff Date EXP DATE

8022609

Jason Lewis

Senior Director, Global Quality

Inv # 01/15/16