

320 REED CIRCLE, CORONA, CA 92879-1349
(951) 734 - 4391**TEST CERTIFICATION**

Cert # : 1234	Cert Date: 9/21/2020	Lot # : 1111295
MFG Date : 8/13/2020		Line: 1.000
Cust # : 140990		
Customer : BLUE SKY INDUSTRIES INC.	P.O. # : 71625	
Ship To : MONTEREY PARK, CA.	P.O. Qty : 2505	
Part # : NAS1790V4R7AX	Ship # : 2202581	
Material Spec : AMS4967M	Ship Qty : 2505	
Type : 6AL-4V	MFG. Part # : NAS1790V4R7AX REV. 6	
Code : 17199	Heat # : H9F76	
	Mill, Vendor : ATI/CARPENTER	
	Procure Spec : NAS4004 REV.16	

Metalurgical, Special Process and Subcontracted Information

THREADS INSPECTED PER MIL-S-8879C N.3, AS8879D OR MIL-S-7742D A.1 MACRO AND MICROSTRUCTURE SATISFACTORY 6 PCS HEAT TREAT PER AMS-H-81200D BY 3V FASTENERS 08/18/20 SAMPLE FPI PER ASTM E1417/E1417M-16 120 PCS BY 3V 09/11/20 ALUMINUM COAT PER NAS4006 REV.6 BY C&R #1138458

Recess Strength

SAMPLE SIZE	10	PCS	INSTALL	140	IN/LBS
FAILURE	NONE		REMOVAL	140	IN/LBS

Shear per NASM1312-13 or -20

Minimum Requirements: 190,000 PSI

Load	Load	Load	Load	Load
211157	208480	208369		

THIS TEST CERTIFICATION SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF 3V FASTENERS CO., INC. TESTING LABORATORY.
THIS CERTIFICATION SHALL NOT BE USED BY THE CUSTOMER TO CLAIM PRODUCT ENDORSEMENT BY ANY AGENCY OF THE U.S. GOVERNMENT.
3V FASTENERS CERTIFIES THAT THE PRODUCT SHIPPED ON ABOVE PURCHASE ORDER WERE MANUFACTURED, INSPECTED AND TESTED IN COMPLIANCE WITH ALL APPLICABLE PRINTS AND SPECIFICATIONS. ALL SUPPORTING DOCUMENTATION IS ON FILE AT 3V, ACCREDITED TO AS9100D, ACCREDITED ISO 9001:2015.
TRC CERTIFICATE NUMBER: TRC 00717, CAGE CODE 1ER65, COO:USA
BAE APPROVAL BAE/AG/30148/CAL, AIRBUS APPROVAL 30085.
THE RAW MATERIAL USED TO MANUFACTURE THESE PARTS WAS MELTED IN THE USA OR A QUALIFYING COUNTRY AND COMPLIES WITH THE APPLICABLE SECTIONS OF DFARS 252-225. PART MANUFACTURED AND TESTED IN MERCURY FREE ENVIRONMENT.

QUALITY ASSURANCE LAB SUPERVISOR


Mohammed Majeedi



3V® FASTENERS
PRECISION AEROSPACE FASTENERS
a **CAM**™ Company

320 REED CIRCLE, CORONA, CA 92879-1349
(951) 734 - 4391

PACKING LIST
Pick Number
2202581

Customer No:	140990
Our Order:	190782
Date Order:	12/06/2019
Customer P.O. No:	71625
Ship Via:	UPS Ground

Bill To:

BLUE SKY INDUSTRIES INC.
595 MONTEREY PASS ROAD
MONTEREY PARK CA 91754-3617
USA

Ship To:

BLUE SKY INDUSTRIES INC.
595 MONTEREY PASS ROAD
MONTEREY PARK CA 91754-3617
USA

FOB: Free On Board - Origin

Total Quantity Shipped: 2,505

Line	Item Number	Revision Number	Customer Reference Number	Lot ID	Quantity Shipped
1.000	NAS1790V4R7AX	REV. 6		1111295	2,505

We Heriby certify the referenced order(s) conform to the requirements of the applicable drawings, standards and specifications. Evidence of compliance is retained on file.

3V FASTENERS CO., INC.		FINAL INSPECTION REPORT		PG 1 OF 2	
PART NUMBER	REV.	LOT #	LOT SIZE	SAMPLE SIZE	
NAS1790V4R7AX	6	1111295	2563	125/13	
DESC BOLT 100° F/H OFFSET CRUCI .0156 O/S		PRINT NUMBER	SAMPLING PLAN		
1/4-28 X .863		NAS1790	NAS4004 TBL XII, S-3		
PRINT CHARACTERISTIC	PRINT REQ.	ACTUAL	ACC.	REJ.	GAGE EQUIPMENT
HEAD MARKING	1790 V 4 7 LOGO X	1790 V 4 7 LOGO X	✓		VISUAL/10X
**LENGTH +- .015	.878-.848	.861-.858	✓		CALIPER
(a)GRIP LENGTH +- .010	.448-.428	.438-.433	✓		CALIPER/OPT.COMP.
THREAD PITCH DIA.	.2268-.2243	.2250-.2245	✓		TRI-ROLL
THREAD FUN. DIA.	.2268-.2243	.2253-.2247	✓		TRI-ROLL/RING GAGE
THREAD MAJOR DIA.	.2470-.2435	.2469-.2459	✓		MICROMETER
THREAD ROOT RADIUS	.0064-.0054	.0059-.0058	✓		OPTICAL COMPARATOR
THREAD MINOR DIA.	.2088-.2041	.2060-.2056	✓		TRI-ROLL/OPT.COMP.
INCOMPLETE THREAD	.088 MAX.	<.088	✓		OPTICAL COMPARATOR
D GRIP DIAMETER	.2651-.2641	.2649-.2644	✓		MICROMETER/OPT COMP
B HEAD DIMENSION	.464 MIN.	>.464	✓		CALIPER
HEAD EDGE ROUNDNESS	.006 TIR	.002-.001	✓		CONCENTRICITY GAGE
R RADIUS UNDER HEAD	.035-.015	.028-.026	✓		OPTICAL COMPARATOR
M PROT HEIGHT V.4245	.0338-.0309	.0316-.309	✓		HGT STAND/OPT COMP
HEAD ANGLE	101°-99°	100°-99°	✓		OPTICAL COMPARATOR
J SOCKET/RECESS DEPTH	.118 MAX.	<.118	✓		HEIGHT STAND
W SOCKET/RECESS WIDTH	.325 MAX.	<.325	✓		CALIPER/PIN GAGE
SOCK./RECESS GAGING	.0890-.0750	.0830-.0790	✓		PENETRATION GAGE
2 FIN THD,B/S,RAD,GRIP	32/RA MAX.	<32/RA	✓		COMPARATOR GAGE/10X
2 FIN. ALL OTHERS	125/RA MAX.	<125/RA	✓		COMPARATOR GAGE/10X
**BURRS/SHARP EDGES	NONE ALLOWED	NONE	✓		VISUAL/10X
Z SHANK STRAIGHTNESS*	.0030 TIR	.0010	✓		CONCE.GAGE/SUR.PLT.
INSP. PERFORMED & ACCEPTED BY:			DATE: September 21, 2020		
REPORT PREPARED BY: ROBERT CANTILLO			DATE: April 18, 2019 631268		

FORM 11-1, REV 5 03/17/98

NOTES: MFG DATE; 08/13/20
 ** = PRINT DETAIL
 * = PER INCH OF LENGTH

[illegible]

&R Plating Company

245 W. 135th Street
Los Angeles, CA 90061
Office: 310-225-5634/ Fax: 310-693-2636

1138458


9/18/20

Customer:

3V FASTENERS INC

Certification

Certification No: 15006

P.O. Quantity	Description	P.O. NO.: 1138458	Order Date: 09/14/2020
2.563	<p>PART # NAS1790V4R7AX REV. N/A</p> <p>Job#: 1111295</p> <p>PANS/BOX(ES): 1</p> <p>Material Type: 6-4</p> <p>Application: Apply AC-6 N/C Per NAS4006 Rev. 6</p> <p>Batch#: 028</p> <p>Manufacturing Date: 08-18-20</p> <p>Expiration Date: 08-18-21</p> <p>We certify the processing and inspection performed on this purchase order are in accordance with all applicable specifications and/or customer requirements.</p> <p>Signed:  Authorized Quality Representative</p> <p>Date: 09-18-20</p> <p>Visual Results: Pass Sample Size: 125</p> <p>Thickness: .0003/.00035" Sample Size: 125</p> <p>Adhesion Results: Pass Sample Size: 6</p>		

PRINT DATE 9/18/2020



195 Museum Road
Washington, PA 15301
Phone 724.228.1000
Fax 724.229.4195

PRODUCT CERTIFICATION

WORK ORDER
112170

SALES ORDER / RLS
071447 / 001

SHIP TO

3V Fastener CO, Inc
320 Reed Circle
Corona, CA 92879
USA

1 COIL
1.285
10/8/19
RA

CUSTOMER P.O. 121457	CUSTOMER PART 3-R56400-0.2635-00	QUANTITY LADING NO 285 lbs 00103464	SHIPMENT DATE 09/27/2019
PART INFORMATION 111DB3FTS02635ND TI 6AL 4V Fastener Quality Dynalene Coil - 0.2635" Dia. Specifications: AMS 4967 Rev: M; W-Ti-0001 Per Exceptions Rev: 1; AMS 4928 Rev: W Size: 0.2635" Dia. +/- 0.0005"			
Chemical Report (Wt.%)			
Heat H9F76	Al T / 6.16	Al B / 6.15	C T / .019
	C B / .024	Fe T / .16	Fe B / .16
	N T / .013	N B / .013	O T / .15
	O B / .16	V T / 3.94	V B / 3.94
	Y T / <.0009	Y B / <.0009	Ti / BAL
	OT E / .05	TOE / .20	
Hydrogen (As Shipped)			
Hydrogen (%) / 0.0036			
As Shipped Properties			
UTS #1 (psi) 144300	YS 0.2% #1 (psi) 120800	EL #1 (%) 17.0	RA #1 (%) 48
UTS #2 (psi) 147900	YS 0.2% #2 (psi) 123600	EL #2 (%) 18.9	RA #2 (%) 50
Hardness (HRC) 32			
Capability@1750°F (954°C) 1hr WQ +1000°F (538°C) 4hrs AC			
UTS #1 (psi) / 179800	YS 0.2% #1 (psi) / 166500	EL #1 (%) / 14.3	RA #1 (%) / 56
Hardness (HRC) 39			
Metallography Results			
Microstructure Alpha/Beta /			
Material Data			

17199



**CARPENTER
TITANIUM**
by Dynamet

195 Museum Road
Washington, PA 15301
Phone 724.228.1000
Fax 724.229.4195

PRODUCT CERTIFICATION

WORK ORDER
112170

SALES ORDER / RLS
071447 / 001

SHIP TO

3V Fastener CO, Inc
320 Reed Circle
Corona, CA 92879
USA

CUSTOMER P.O. 121457	CUSTOMER PART 3-R56400-0.2635-00	QUANTITY LADING NO 285 lbs 00103464	SHIPMENT DATE 09/27/2019
Melt Source ATI Bakers North Operation	Melt Origin USA ✓	Melt Type PAM-VAR	
Bt Tr °F 1812	Bt Tr °C 989		
Certification Information			
As Shipped Condition Annealed 1450°F (788°C) 1 Hr. A/C. ✓			
<p>CERTIFICATION REQUIREMENTS</p> <p>Material free of Alpha Case. ✓ Material tested in 4D gage length. Hydrogen analysis taken from final product. ✓ Material free of mercury and radioactive contamination. ✓ Material was eddy current tested at finish diameter. Dynamet Inc has Complied with all producer requirements of AS6279.</p>			
<p><i>Jamie L. Burrows</i> _____ Jamie L. Burrows Administrator II - Quality</p>			
End of Certification			
<p>This is to certify that the above test results are correct as contained in the records of the company.</p> <p>Certification shall not be reproduced except in full without the approval of Dynamet Inc. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal Law.</p>			

17199



4374 Lancaster
Highway,
Richburg, SC 29729
US

CERTIFICATE OF TEST

Cert No.333988 Rev.1



Donald W. James

Donald W. James
Certification Auditor
Date : July 10, 2019

Batch -
228133
Heat -
H9F76

Customer Name & Address	Purchase Order No	Purchase Order Line No	Part No	Sales Order No	Sales Order Line No
The Boeing Company PO Box 34656 Seattle WA 98124 US	4500006E62	00020	AGGM0004P-001	108261	2.1

Size (in)	Cross section	No Pcs	Weight (lbs)	Alloy
4.0000	Round	38	13,756	ATI 6-4" Alloy

Remarks:

BCA-65325-1194
Customer PO#: 072998 and Item# 3
Customer P/N: AGGM0004P-001
RMAS Sales Order: 20987# 30

Specifications

Spec Name	Rev	Compliance Condition
D1-2111	B	Compliant

Reference Specifications

Spec Name	Rev	Class	Compliance Condition
AMS 4928	W		Capable Of
AMS 4967	M		Capable Of
ASTM B348	2013	GRADE=5	Capable Of

Remarks:

Capable Of: ATI Specialty Materials guarantees material will meet specification requirements in the final product after additional appropriate processing but may not be tested in the 'As Shipped' condition.

As Shipped Condition

Heat Treat	Hot Work Type
No Heat Treat	Forged
Surface Finish	
Peel/Shave & Polish	

Melt Method Details

Primary Melt	Facility	Address
Plasma Arc Melt	ATI Bakers North Operations	6400 Alloy Way, Monroe, NC 28110-8329 US
Remelt	Facility	Address
Vacuum Arc Remelt	ATI Bakers North Operations	6400 Alloy Way, Monroe, NC 28110-8329 US
		Date
		05/23/2019

Conversion Method Details

Conversion Type	Facility	Address
Radial Forge	ATI Monroe Operations	2020 Ashcraft Avenue, Monroe, NC 28110-5030 US

17199

ATI Specialty Materials and Metals Technology & Research, Inc. Group Inc.

Batch - 228133

Heat - H9F76

**CHEMISTRY**

Piece ID			TOP	BOTTOM
Test Facility			ATI Monroe Operations	ATI Monroe Operations
Elements	UOM	Method		
Al	%	XRF	6.16	6.15
V	%	XRF	3.94	3.94
Fe	%	XRF	0.16	0.16
O	%	GAS	0.15	0.16
C	%	CS	.019	.024
N	%	GAS	.013	.013
Cu	%	WET	<0.01	<0.01
B	%	WET	<0.0009	<0.0009
Si	%	XRF	0.01	0.01
Y	%	WET	<0.0009	<0.0009
Ti	%	XRF	BAL	BAL

Test Comments: Other Elements (each) = 0.05 wt.% max.
Total Other Elements = 0.20 wt.% max.

Remarks:

CS = Combustion/IR Detection

GAS = Inert Gas Fusion

XRF = X-Ray Fluorescence

WET = Inductively Coupled Plasma Emission

Piece ID			T1-1-1-1	B3-2-3-2
Test Facility			ATI Monroe Operations	ATI Monroe Operations
Elements	UOM	Method		
H	%	GAS	0.0029	0.0030

Test Description: Hydrogen: Billet - 0.25" Below Surface

Remarks:

Test Methods: C = ASTM E1941 (2010/2016); O/N = ASTM E1409 (2013); H = ASTM E1447 (2009/2016); ICP = ASTM E2371 (2013); XRF = ASTM E539 (2011)

METALLOGRAPHY**Remarks:**

Beta Transus Calculated by Chemistry:

1807 F. = TOP

1817 F. = BOTTOM

Ultrasonic

Test Facility: ATI Richburg Operations

Remarks:

Material ultrasonically inspected and found acceptable to the following specifications:

AMS 2631 Class A1

AMS-STD-2154 Type I Class A

Macro

Test Facility	Etchant	Magnification
ATI Monroe Operations	Ammonium Bifluoride	1X

Remarks:

Material macro evaluated top, middle and bottom of each ingot and found acceptable.

Outside Source Addresses

Outside Testing Laboratory

Facility

ATI Monroe Operations

Address

2020 Ashcraft Avenue, Monroe, NC 28110 USA

Maps Attached

Attached File Description(s):

1) BAR MAPS

Special Remarks

Material produced and controlled in accordance with I.I. SSA Dynamet-001 Rev.004.

Batch - 228133

Heat - H9F76



17199

Remarks

Material has been produced, sampled, inspected and tested in accordance with the acknowledged customer purchase order and referenced specifications and conforms to the requirements unless otherwise noted in this Certificate of Test or in other communications regarding purchase order clarifications, specification exceptions, or long term agreements.

If customer purchase order does not specifically reference a revision to a specification, ATI Specialty Materials will work to the latest revision on file and in effect at the time of order placement.

ATI Specialty Materials has complied with all producer requirements of AS6279.

Any chemical elements analyzed and found to have values below the actual limits of detection may be reported as less than or reported at the detection level.

When values are reported to the significant places called for in the specifications, rounding will be done in accordance with ASTM E29.

This is to certify that during the manufacturing, handling, testing and inspection, this material did not come in direct contact with mercury or any device employing a single boundary of containment.

ATI Specialty Materials products have not come in contact with radioactive materials during manufacturing or processing.

No weld repair has been performed on this material.

Material melted and manufactured in the United States of America unless otherwise noted in this Certificate of Test.

Material Safety Data Sheets (MSDS) - View or print from our site: www.atimetals.com

Printed copies are available upon request from the ATI Specialty Materials Sales Department.

ATI Specialty Materials certifies that it has procedures in place to provide reasonable assurance that any non-scrap/non-recycled Conflict Minerals (Columbite-Tantalite/Coltan and its derivative metal Tantalum; Cassiterite and its derivative metal Tin; Wolframite and its derivative metal Tungsten; and Gold) included in the materials supplied under this purchase order do not originate from the Democratic Republic of Congo or specified adjoining countries (Covered Countries) as defined by and in accordance with Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2012. ATI Specialty Materials will provide a CMRT form annually upon request.

The recording of false, fictitious, or fraudulent statements or entries on this document may violate Federal statutes, including but not limited to Title 18, Chapter 47 of the United States Code and may be punishable as a felony.

This Certificate of Test shall not be reproduced, except in full, without the written approval of ATI Specialty Materials Quality.



Blue Sky Industries, Inc.

595 MONTEREY PASS RD.
MONTEREY PARK, CA. 91754-2416

PHONE: 213.620.9950 FAX: 213.620.9953

Packing Slip/Certificate of Conformity

Invoice #: UK85082

Date Printed: 12/16/2020

of Items: 1

Page: 1

Bill To:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
WEST SUSSEX RH13 0AS
UNITED KINGDOM

Ship To:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
WEST SUSSEX RH13 0AS
UNITED KINGDOM

Invoice Date: 12/16/2020

Terms: NET 30

Weight: 2

Ship Via: DHL GROUND

Order Date: 12/9/2019

Shipment:

of Boxes: 1

Ship Via Acc: 131026096

Ship Date: 12/15/2020

IncoTerms:

Ship Log #: 0

Ship Order: UK53127

Sales Order: UK57009

Salesperson: AIMEE PATTENDEN

Cust VAT #:

Cust. PO#: CPE122481

Customer #: AJWA200

Buyer: NICK TOWNSEND

VAT #:

AWB: 934758625626

Item	Part Number/Description	Shipped	BackOrd	CD	UOM
29	NAS1790V4R7AX BOLT Location: 30A-C-3 Warehouse: US Lot Number: 1111295 Qty Sold: 100 Revision: 6 Condition: NE Mfg: 3V FASTENERS	100.00	0.00	NE	

As a management official of BLUE SKY INDUSTRIES, INC., I hereby certify that the above mentioned items have been inspected in accordance with our quality system policies developed under the provisions of ISO 9001-2015 / AS 9120B. We have the original certificate of conformity (CofC) of the material listed on file at this place of business. All above mentioned items conform to the requirements stated in the customer's purchase order.

It is your responsibility to obtain a validated export license for this material from the Dept. of State or the Dept. of Commerce if so required under the applicable U.S. Government Export Control Regulation. The above material is not to be shipped to any country that has an embargo placed on it by the U.S. Government.

Authorized Signature:





Blue Sky Industries, Inc.

595 MONTEREY PASS RD.
MONTEREY PARK, CA. 91754-2416

PHONE: 213.620.9950 FAX: 213.620.9953

Invoice

Original

Invoice #: UK85082

Invoice Date: 12/16/2020

Page: 1

Payment Due Date: 1/15/2021

Bill To:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
WEST SUSSEX RH13 0AS
UNITED KINGDOM

Ship To:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
WEST SUSSEX RH13 0AS
UNITED KINGDOM

Cust. PO#: CPE122481

Terms: NET 30

Ship Via: DHL GROUND

Ship Via Acc: 131026096

Salesperson: AIMEE PATTENDEN

Sales Order: UK57009

Forwarder Name:

Trucking Name:

Order Date: 12/16/2020

of Items: 1

of Boxes: 1

Weight: 2

Customer #: AJWA200

VAT #: 166520314

Cust VAT #:

Ship Date: 12/16/2020

Buyer: NICK TOWNSEND

IncoTerms:

AWB: 934758625626

Ship Order: UK53127

Item	Part Number/Description	Shipped	BackOrd	CD	List Price	Disc	Unit Price	UOM	Total Amt
29	NAS1790V4R7AX BOLT	100.00	0.00	NE	\$18.78	0.00	\$18.78	EA	\$1,878.00
<p style="text-align: center;">*** Order Complete ***</p> <p>Please send all USD payments to: Bank Name: HSBC UK Beneficiary Name: Blue Sky Industries Europe Ltd Account Number: 76123305 Sort Code: 40-12-75 IBAN: GB19HBUK40127676123305 BIC: HBUKGB4B</p> <p>Please send all Euro payments to: Bank Name: HSBC UK Beneficiary Name: Blue Sky Industries Europe Ltd Account Number: 76123305 Sort Code: 40-12-75 IBAN: GB94HBUK40127676123305 BIC: HBUKGB4B</p> <p>Please send all GBP payments to: Bank Name: HSBC UK Beneficiary Name: Blue Sky Industries Europe Ltd Account Number: 31599196 Sort Code: 40-28-16 IBAN: GB80HBUK40281531895196 BIC: HBUKGB4B</p>									

ALL GOODS SHIPPED UNDER THIS INVOICE WILL REMAIN THE PROPERTY OF BLUE SKY INDUSTRIES, INC. UNTIL FULL PAYMENT HAS BEEN RECEIVED.

Any claims for shortages or adjustments must be made within (10) days from receipt of goods. We reserve the right to overship or undership by 3%. Claims for damaged products, suspected damages within the carton or carton shortages on delivery must be so noted on the bill of lading or shipping papers. Any freight claims must be filed directly with the carrier as Blue Sky Industries, Inc. will not be liable for damage or loss caused by shipment by common carrier. In the event of such claims, the customer shall be required to make timely payment to Blue Sky Industries, Inc. for any amount due. Authorizations must be obtained from Blue Sky Industries, Inc. before any products can be returned for credit or replacement.

ALL PAST DUE INVOICES AFTER 30 DAYS ARE SUBJECT TO A 1.5% INTEREST CHARGE PER MONTH ON ALL OPEN BALANCES. ALL RETURNS ARE SUBJECT TO A 25% RE-STOCKING FEE.

Authorized Signature:

Item Total: \$1,878.00

Discount: \$0.00

SubTotal: \$1,878.00

Tax Total: \$0.00

Misc Charge: \$0.00

Freight: \$0.00

Total: \$1,878.00

Payment Amt: \$0.00

Payment Type:

Payment Owed: \$1,878.00

USD