



Shipper ID: B28898

Page 1 of 2

Sold To: 5574

BOEING DIST SERVICES INC
ATTN: ACCOUNTS PAYABLE
P.O. BOX 025263
MIAMI, FL 33102-5263
USA

Ship To: 55740027

BOEING DIST SERVICES INC
3760 W 108TH STREET
DOCK DOOR B
MIAMI, FL 33018
USA

Shipped From:
HFS SYLMAR OPERATIONS
12975 BRADLEY AVENUE
Sylmar, CA 91342
USA

Ship Date: 07/21/20
Print Date: 07/21/20
Time: 2:23:18 PM

Container/Weight: 6 crns 1236 / 5233 #
Carrier Shipment Ref: B28898
Bill Lading #: Totals 201 lbs
Ship Via: FED EX GRD
INCO Terms: FCA HFS SYLMAR

SHIPPING: FEDX GRD COLLECT ACCT# 633948178 IF 150 LBS OR MORE: SHIP FEDEX
FREIGHT ECONOMY COLLECT ACCT# 693788919. DO NOT SHIP BY ANY OTHER CARRIER
WITHOUT PROPER WRITTEN AUTHORIZATION
CERT REQTS: MFG'S C OF C, TEST REPORTS, RAW MAT'L
QUALITY REQTS: BAR CODE PER QAP 33 CLAUSE P REQUIRED;
QAP 33.0 REV N CLAUSES: A,A.1,B,C,E,H,P,U,V. CLAUSE A.3 GENERAL TERMS
APPLIES.

DO NOT INSURE OR DECLARE A VALUE FOR THIS SHIPMENT
HFS COMPLIES WITH DFARS 252.225-7009 REQ.

REV. B

BUYER: Yerika Williams

PHONE:

() Full certs required/Cert must include statement: "Made in USA." (A/E).

DFAR 252.225-7009 specialty metals applies and must appear on
certifications(A.1).

END USER: AIR FRANCE & US AIRWAYS

Sales Order: F666437 Order Date: 03/28/19 Purchase Order: 00BS814

Remarks: AMBERLY

Ln	Item Number	Description	Rev	Qty Shipped	Qty B/O	UM	Type
3	28048648	VCC0204-4-4		10725.0	14275.0	EA	Fingood
4 OD 12 PT Tension							
Cust Line #: 3							
Customer Item: VCC0204-4-4							
Required Date: 03/21/21 Promised Date: 04/04/21							
MFG C OF C CHEM & PHYS TEST REPORT REQ							
Loc/Lot: PACKING 76496 10,725.00 COO: US							
HTS CODE: 7508905000							
SCHEDULE-B NUMBER: 7508900000 ECCN: EAR99							
The export classification appears above. You are responsible for all related							

CERTIFICATE OF CONFORMANCE

The product defined herein has been manufactured and inspected in conformance with contractual requirements. All dimensional, mechanical and metallurgical tests were conducted in accordance with, and conform to, the requirements of the applicable drawing(s) and specification(s). All required processing, chemical and physical test reports are on file and subject to examination.

The item or part ("Part") released on this Certificate of Conformance (CoC) certifies that the Part meets the performance requirements in accordance with customer's drawings, specifications, and other applicable documents agreed by the parties ("Performance Requirements"). Customer is responsible to ensure that the end use application for the Part is appropriate in light of such Performance Requirements, and further that the Part (as used) meets all applicable laws, regulations, requirements, standards and good aviation industry practices, including but not limited to the Federal Aviation Administration (FAA), European Aviation Safety Agency (EASA) and Civil Aviation Authority (CAA). Should a Part be used in an application that exposes it to conditions beyond the Performance Requirements, this CoC will not apply.

This certification shall not be reproduced except in full, without the written approval of HFS. Any alteration to: 1) this certificate, 2) any supporting certifications, or 3) the parts covered by this certificate voids this certification and any affirmations related to the parts made by HFS. The recording of false, fictitious or fraudulent statements or entries on this certificate may be punished as a felony under federal law.

Olivier Portras
Quality Assurance Manager
HFS Sylmar

VALLEY-TODECO, INC.

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY (IN AMOUNT, QUANTITY, ETC.) BETWEEN THE GOODS ACTUALLY SHIPPED AND / OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NO LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON.

CUSTOMER'S COPY



Shipper ID: B28898

Page 2 of 2

Sold To: 5574

BOEING DIST SERVICES INC
ATTN: ACCOUNTS PAYABLE
P.O. BOX 025263
MIAMI, FL 33102-5263
USA

Ship To: 55740027

BOEING DIST SERVICES INC
3760 W 108TH STREET
DOCK DOOR B
MIAMI, FL 33018
USA

Shipped From:

HFS SYLMAR OPERATIONS
12975 BRADLEY AVENUE
Sylmar, CA 91342
USA

Ship Date: 07/21/20

Print Date: 07/21/20

Time: 2:23:18 PM

Container/Weight:

Carrier Shipment Ref: B28898

Bill Lading #:

Ship Via: FED EX GRD

INCO Terms: FCA HFS SYLMAR

export license requirements.

***** Total Qty Shipped:

10,725

CERTIFICATE OF CONFORMANCE

The product defined herein has been manufactured and inspected in conformance with contractual requirements. All dimensional, mechanical and metallurgical tests were conducted in accordance with, and conform to, the requirements of the applicable drawing(s) and specification(s). All required processing, chemical and physical test reports are on file and subject to examination.

The item or part ("Part") released on this Certificate of Conformance (CofC) certifies that the Part meets the performance requirements in accordance with customer's drawings, specifications, and other applicable documents agreed by the parties ("Performance Requirements"). Customer is responsible to ensure that the end use application for the Part is appropriate in light of such Performance Requirements, and further that the Part (as used) meets all applicable laws, regulations, requirements, standards and good aviation industry practices, including but not limited to the Federal Aviation Administration (FAA), European Aviation Safety Agency (EASA) and Civil Aviation Authority (CAA). Should a Part be used in an application that exposes it to conditions beyond the Performance Requirements, this CofC will not apply.

This certification shall not be reproduced except in full, without the written approval of HFS. Any alteration to: 1) this certificate, 2) any supporting certifications, or 3) the parts covered by this certificate voids this certification and any affirmations related to the parts made by HFS. The recording of false, fictitious or fraudulent statements or entries on this certificate may be punished as a felony under federal law.

Olivier Portas
Quality Assurance Manager
HFS Sylmar

VALLEY-TODECO, INC.

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY (IN AMOUNT, QUANTITY, ETC.) BETWEEN THE GOODS ACTUALLY SHIPPED AND / OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NO LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON.

CUSTOMER'S COPY



Shipper ID: B28898

Page 1 of 2

Sold To: 5574

BOEING DIST SERVICES INC
ATTN: ACCOUNTS PAYABLE
P.O. BOX 025263
MIAMI, FL 33102-5263
USA

Ship To: 55740027

BOEING DIST SERVICES INC
3760 W 108TH STREET
DOCK DOOR B
MIAMI, FL 33018
USA

Shipped From:
HFS SYLMAR OPERATIONS
12975 BRADLEY AVENUE
Sylmar, CA 91342
USA

Ship Date: 07/21/20
Print Date: 07/21/20
Time: 2:23:18 PM

Container/Weight:
Carrier Shipment Ref: B28898
Bill Lading #:
Ship Via: FED EX GRD
INCO Terms: FCA HFS SYLMAR

SHIPPING: FEDX GRD COLLECT ACCT# 633948178 IF 150 LBS OR MORE: SHIP FEDEX
FREIGHT ECONOMY COLLECT ACCT# 693788919. DO NOT SHIP BY ANY OTHER CARRIER
WITHOUT PROPER WRITTEN AUTHORIZATION
CERT REQTS: MFG'S C OF C, TEST REPORTS, RAW MAT'L
QUALITY REQTS: BAR CODE PER QAP 33 CLAUSE P REQUIRED;
QAP 33.0 REV N CLAUSES: A,A.1,B,C,E,H,P,U,V . CLAUSE A.3 GENERAL TERMS
APPLIES.

DO NOT INSURE OR DECLARE A VALUE FOR THIS SHIPMENT
HFS COMPLIES WITH DFARS 252.225-7009 REQ.

REV. B

BUYER: Yerika Williams

PHONE:

(_) Full certs required/Cert must include statement: "Made in USA." (A/E).

DFAR 252.225-7009 specialty metals applies and must appear on
certifications(A.1).

END USER: AIR FRANCE & US AIRWAYS

Sales Order: F666437 Order Date: 03/28/19 Purchase Order: 00BS814

Remarks: AMBERLY

Ln	Item Number	Description	Rev	Qty Shipped	Qty B/O UM Type
3	28048648	VCC0204-4-4		10725.0	14275.0 EA Pingood
	4 OD 12 PT Tension				
	Cust Line #: 3				
	Customer Item: VCC0204-4-4				
	Required Date: 03/21/21	Promised Date: 04/04/21			
	MFG C OF C CHEM & PHYS TEST REPORT REQ				
	Loc/Lot: PACKING 76496		10,725.00	COO: US	
	HTS CODE: 7508905000				
	SCHEDULE-B NUMBER: 7508900000	ECCN: EAR99			

The export classification appears above.You are responsible for all related

VALLEY-TODECO, INC.

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH
TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY (IN AMOUNT, QUANTITY, ETC.) BETWEEN THE GOODS ACTUALLY SHIPPED AND / OR
DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NO LATER THAN NINETY (90) DAYS AFTER THE SHIPPING
DATE APPEARING HEREON

CUSTOMER'S COPY



Shipper ID: B28898

Page 2 of 2

Sold To: 5574

BOEING DIST SERVICES INC
ATTN: ACCOUNTS PAYABLE
P.O. BOX 025263
MIAMI, FL 33102-5263
USA

Ship To: 55740027



BOEING DIST SERVICES INC
3760 W 108TH STREET
DOCK DOOR B
MIAMI, FL 33018
USA

Shipped From:
HFS SYLMAR OPERATIONS
12975 BRADLEY AVENUE
Sylmar, CA 91342
USA

Ship Date: 07/21/20
Print Date: 07/21/20
Time: 2:23:18 PM

Container/Weight:
Carrier Shipment Ref: B28898
Bill Lading #:
Ship Via: FED EX GRD
INCO Terms: FCA HFS SYLMAR

export license requirements.

Total Qty Shipped:

10,725

VALLEY-TODECO, INC.
ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY (IN AMOUNT, QUANTITY, ETC.) BETWEEN THE GOODS ACTUALLY SHIPPED AND / OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NO LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON.

CUSTOMER'S COPY



Howmet Fastening Systems
Sylmar Operations
12975 Bradley Avenue
Sylmar CA 91342 USA
818-387-2261

Valley-Todeco, Inc., Cage Code 06710

LOT CERTIFICATION

Publish Date	Specification(s) & Revision	Lot ID	Description	Work Order	Lot Quantity	Date of Manufacture	Page
Jul 22, 2020 11:17	VBS041, Rev. A Threads per AS8879 "D"	76496	Bolt	10241	10,725	Feb 17, 2020	1 of 1

** Part counts shown in the certification package may originate from weigh counting. A 2% variation in part counts is considered compliant.

AUTHORIZED PART NUMBER(S)

Part Number	Drawing	Revision	Notes
VCC0204-4-4	VCC0204	B	-None-

CERTIFICATION DATA

Category	Specification	Trace Number
Material	Inco718, Solution Treated per AMS5862 (See material specification for revision)	AFS7057380
Heat Treat	Precipitation Heat Treat, Inco718, Age Only per 23D0001 (Rev N/C) Heat Treat Inco718, Age Only per AMS5862 (See material certificate for revision) Precipitation Heat Treat, Inco718, Age Only per AMS5862 (Rev A) Precipitation Heat Treat, Inco718, Age Only per NASM 85604 (Rev 1) Precipitation Heat Treat, Inco718, Age Only per NASM 85730 (Rev N/C) Heat Treat Inco718, Age Only per 23D0003 (Rev A) Heat Treat Inco718, Age Only per BPS-F-68 (Rev BH) Inco718, Age Only per VP8038 (Rev J) Heat Treat Inco718, Age Only per BACB30PN (Rev AP)	HT00006346
NDT	Penetrant Inspection, Type 1, Method D, Sensitivity Level 2, Form a per VBS 041 (Rev A) Penetrant Inspection, Type 1, Method D, Sensitivity Level 2, Form a per ASTM E1417/E1417M (Rev 16)	NDT00006632
Surface Treatment	Salt Spray Test, 4 Hours per ASTM B117 (Rev 16) Passivation, Passivation, Method 1, Type 8, Class 4 per AMS2700 (Rev F)	ST00005909

CERTIFICATION OF CONFORMANCE

The product defined herein has been manufactured and inspected in conformance with contractual requirements. All dimensional, mechanical and metallurgical tests were conducted in accordance with, and conform to, the requirements of the applicable drawing(s) and specification(s). All required processing, chemical and physical test reports are on file and subject to examination.

The item or part ("Part") released on this Certificate of Conformance (CofC) certifies that the Part meets the performance requirements in accordance with customer's drawings, specifications, and other applicable documents agreed by the parties ("Performance Requirements"). Customer is responsible to ensure that the end user application for the Part is appropriate in light of such Performance Requirements, and further that the Part (as used) meets all applicable laws, regulations, requirements, standards, and good aviation industry practices, including but not limited to the Federal Aviation Administration (FAA), European Aviation Safety Agency (EASA) and Civil Aviation Authority (CAA). Should a Part be used in an application that exposes it to conditions beyond the Performance Requirements, this CofC will not apply.

This certification shall not be reproduced except in full without the written approval of HFS. Any alteration to: 1) this certificate, 2) any supporting certifications, or 3) the parts covered by this certificate voids this certification and any affirmations related to the parts made by HFS. The recording of false, fictitious or fraudulent statements or entries on this certificate may be punished as a felony under federal law.

PREPARED BY: Nicolas Billet  QUALITY REPRESENTATIVE DATE: Jul 22, 2020
--

Please recycle packaging material responsibly

This document shall not be reproduced, except in full, without the written approval of HFS.

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 001188833

**CARPENTER**

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL TAX TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSIS AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL TO ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

01/10/20

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 5

ARCONIC SYLMAR
FASTENING SYSTEMS & RINGS
PO BOX 9205
SYLMAR, CA 91342

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING, PA 19601

CUSTOMER ORDER NO. / BESTELL-NR. / N° DE COMMANDE

CARPENTER NO. / WERKS-NR. / N° DE REFERENCE INTERNE

DATE / DATUM / DATE

WEIGHT / GEWICHT / POIDS

221115914

LOS985001 L24320

01/10/20

868.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

973903

PRODUCT DESCRIPTION: PYROMET 718 HIGH TEMP ALLOY ANNEALED COLD FINISH SEAM
FREE C HDG CLN2 HVY CU/MOLY/SOAP
PART NUMBER: H95 CA5662I7180.285

SPECIFICATION: AMS 5662 REV N (06/ /16)
GE C50TF13 CLASS A&B CHEM ONLY REV S20 (01/24/17)
ALCOA QAS 6-1 (09/30/14) EXCPT LTR (11/06/15) APPROVED
DFARS 1998 EDITION
ALCOA CVS050 TYPE I-UNS N07718 REV C (08/03/17)
AMS 2750 REV E (07/01/12)
AMS 5663 HEADING STK. (CAP OF) REV N (06/ /16)
GE C50TF13 CHEM ONLY REV S20 (01/24/17) (CHEMISTRY ONLY)
DFARS 1998 EDITION
GE S-400 (08/01/19) S-SPEC-35

SIZE 0.285000 IN. (7.24 MM) RD WIRE INGOT 6

HEAT CHEMISTRY (WT%):

C 0.04	MN 0.04	SI 0.07	P 0.010	LT S .001	CR 18.54
NI 53.20	MO 2.91	CU 0.05	CO 0.29	AL 0.55	TI 0.93
CB 5.18	TA LT .01	SE LT .0003	MG 0.01	B 0.004	BI LT .00003
CA LT .001	FE 18.36	PB LT .0003			

GEAG SUPPLIER CODE - 21100/CARPENTER
GEAG SUPPLIER CODE - T4314/LATROBE
GEAG SUPPLIER CODE - T9406/ATHENS

THIS MATERIAL HAS BEEN SAMPLED, TESTED, AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND MEETS ALL SPECIFICATION REQUIREMENTS.

THIS MATERIAL WAS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE CONTAMINATION.

HEAT TREATED IN FURNACES QUALIFIED IN ACCORDANCE WITH AMS 2750

NO WELDING (SPlicing) WAS DONE ON THIS MATERIAL.

MATERIAL MELTED AND MANUFACTURED IN THE U.S.A.

ALLOY VERIFICATION TESTING
HAS BEEN PERFORMED

AFS 7057380
1-20-20 CONTINUED ON NEXT PAGE

This certification is made in the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification in other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die angegebenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

Lot/Trace Number: 76496/AFS7057380

This document shall not be reproduced, except in full, without the written approval of HFS.

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 001188833

**CARPENTER**

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES VIOLATING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSIS AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

01/10/20

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 5

ARCONIC SYLMAR
FASTENING SYSTEMS & RINGS
PO BOX 9205
SYLMAR, CA 91342

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING, PA 19601

CUSTOMER ORDER NO. / BESTELL.-NR. / N° DE COMMANDE	CARPENTER NO. / WERKS.-NR. / N° DE REFERENCE INTERNE	DATE D'ANALYSE	WEIGHT / GEWICHT / POIDS
221115914	LOS985001 L24320	01/10/20	868.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 973903
THIS HEAT MELTED BY THE VIM + ESR PROCESSES

MILL HEAT TREATMENT
TYPE SOLUTION ANNEAL
TEMP 1850F (1010C)
TIME AT TEMP CONTINUOUS FURNACE
QUENCH WATER

HARDNESS AS SHIPPED 209HBW (95HRBW)

TENSILE AS SHIPPED, KSI(MPA) 140.0 (965)

GRAIN SIZE PER ASTM E112: 7 (KALLINGS NO.2)

MICROSTRUCTURE ACCEPTABLE: FREE FROM LAVES PHASE AND BANDING OF ACICULAR
PHASE (KALLINGS NO. 2)

CAPABILITY

1750 F (954 C), 01 HR
1325 F (718 C), 08 HR
100F/HR TO 1150F
1150 F (621 C), 08 HR

WATER TREAT
FURNACE COOL

AIR COOL

(T) RANSVERSE (L) ONGITUDINAL
YIELD STRENGTH, (0.20 %) KSI(MPA) 164.0 (1131)
TENSILE STRENGTH, KSI(MPA) 207.0 (1427)
ELONGATION IN 1.00", % 24.0
REDUCTION OF AREA, % 42.0



CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgewiesenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

Lot/Trace Number: 76496/AFS7057380

This document shall not be reproduced, except in full, without the written approval of HFS.

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 001188833



CARPENTER

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

01/10/20

CUSTOMER / BESTELLER / CLIENT

ARCONIC SYLMAR
FASTENING SYSTEMS & RINGS
PO BOX 9205
SYLMAR, CA 91342

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING, PA 19601

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEUR PAGE 3 OF 5

CUSTOMER ORDER NO. / BESTELL.-NR. / N° DE COMMANDE	CARPENTER NO. / WERKS.-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
221115914	LOS985001 L24320	01/10/20	868.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :
CAPABILITY

973903 ✓

1750 F (954 C), 01 HR
1325 F (718 C), 08 HR
FURNACE COOL 100 F/HR. TO 1150 F
1150 F (621 C), 08 HR

WATER TREAT
FURNACE COOL
AIR COOL

HARDNESS , HBW - 443

(MIDRADIUS)

COMBINATION STRESS RUPTURE
TEST TEMP 1200 F (649 C)
STRESS, KSI (MPA) 100.0 (689)
ELONGATION % 25.6
HOURS 40.0

AFTER MINIMUM TIME UNDER SPECIFIED STRESS, THE STRESS RUPTURE TEST
WAS OVERLOADED IN INCREMENTS AS FOLLOWS:

TOTAL HOURS	STRESS KSI (MPA)
23	105.0 (724)
31	110.0 (758)
39	115.0 (793)

(T) RANSVERSE (L) ONGITUDINAL	L
YIELD STRENGTH, (0.20 %) KSI (MPA)	184.0 (1269)
TENSILE STRENGTH, KSI (MPA)	220.0 (1517)
ELONGATION IN 1.00", %	20.0
REDUCTION OF AREA, %	30.0

HOT TENSILE TESTED @ 1200 F (649 C)	L
(T) RANSVERSE (L) ONGITUDINAL	
YIELD STRENGTH, (0.20 %) KSI (MPA)	152.0 (1048)
TENSILE STRENGTH, KSI (MPA)	176.5 (1217)
ELONGATION IN 1.00", %	30.5
REDUCTION OF AREA, %	57.5



CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die angegebenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

Lot/Trace Number: 76496/AFS7057380

This document shall not be reproduced, except in full, without the written approval of HFS.

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 001188833

**CARPENTER**

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 208-2000 (800) 338-4592

01/10/20

CUSTOMER / BESTELLER / CLIENT

ARCONIC SYLMAR
FASTENING SYSTEMS & RINGS
PO BOX 9205
SYLMAR, CA 91342

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING, PA 19601

• THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
• THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE REQUESTED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
• MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
• THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEUR PAGE 4 OF 5

CUSTOMER ORDER NO. / BESTELL.-NR. / N° DE COMMANDE	CARPENTER NO. / WERKS.-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
221115914	LOS985001 L24320	01/10/20	868.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: 973903

MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.

UNLESS OTHERWISE NOTED, ALL TESTING WAS PERFORMED AT READING OR THE FOLLOWING SATELLITE LOCATIONS. TEST BY LOCATION CAN BE PROVIDED UPON REQUEST.

ADDRESS OF TESTING LOCATIONS:

READING - 101 WEST BERN ST,
SHALMET - 116 PINEDALE INDUSTRIAL RD,
ATHENS - 22110 THOMAS L HAMMONDS RD,
HARTSVILLE - 205 TALLEY METALS LANE,

READING, PA 19601
ORWIGSBURG, PA 17961
TANNER, AL 35671
MCBEE, SC 29101

UNLESS OTHERWISE STATED, THE TEST WERE PERFORMED TO THE LATEST REVISION OF THE STANDARDS LISTED BELOW: 1) BEND TEST - ASTM E290, 2) CHARPY IMPACT - ASTM E23, 3) COEFFICIENT OF LINEAR THERMAL EXPANSION - ASTM E228, 4) FRACTURE TOUGHNESS - ASTM E399, 5) BRINELL HARDNESS - ASTM E10, 6) ROCKWELL HARDNESS - ASTM E18, 7) MICRO VICKERS HARDNESS - ASTM E92, 8) KNOOP HARDNESS - ASTM E92, 9) MACRO VICKERS HARDNESS - ASTM E92, 10) STRESS RUPTURE / CREEP RUPTURE - ASTM E139, 11) STRESS RUPTURE (COMBINATION) - ASTM E292, 12) ROOM TEMPERATURE TENSILE - ASTM E8, 13) ELEVATED ROOM TEMPERATURE TENSILE - ASTM E21, 14) DECARBURIZATION - ASTM E1077, 15) DELTA FERRITE AMS 2315, 16) GRAIN SIZE - ASTM E112, 17) INCLUSION CONTENT / MICROCLEANLINESS - ASTM E45, 18) INTERGRANULAR ATTACH - ASTM A262, 19) INTERGRANULAR CORROSION - ASTM A262, 20) MACRO ETCH & TESTING - ASTM A604 / E381, 21) PITTING CORROSION - ASTM A923, 22) CREVICE CORROSION - ASTM G48, 23) HARDNESS CONVERSIONS - ASTM E140, 24) XRF - ASTM E572 / E1085 / E2465, 25) OES - ASTM E415 / E1086, 26) COM - ASTM E1019, 27) FUS - ASTM E1019, 28) MS - CARPENTER METHODS 206.8500 / 206.8530
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 37 DATED 07/31/2019.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED TO ISO 9001, AS9100, AND AS9120. THIS CERTIFICATION OF TEST IS TYPE 3.1 PREPARED IN ACCORDANCE WITH EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.



CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die angegebenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

Lot/Trace Number: 76496/AFS7057380

This document shall not be reproduced, except in full, without the written approval of HFS.

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 001188833

**CARPENTER**

Carpenter Technology Corporation
101 West Bern Street, Reading, Pa. 19601
Tel: (610) 308-2000 (800) 338-4592

01/10/20

CUSTOMER / BESTELLER / CLIENT

ARCONIC SYLMAR
FASTENING SYSTEMS & RINGS
PO BOX 9205
SYLMAR, CA 91342

CARPENTER TECHNOLOGY CORP

101 W. BERN STREET
READING, PA 19601

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, CADMIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEUR PAGE 5 OF 5

CUSTOMER ORDER NO. / BESTELL.-NR. / N° DE COMMANDE	CARPENTER NO. / WFRKS.-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
221115914	LOS985001 L24320	01/10/20	868.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE : 973903

DECISION RULE: UNLESS OTHERWISE SPECIFIED IN A CUSTOMER/INDUSTRY SPECIFICATION, CARPENTER TECHNOLOGY CORPORATION WILL DETERMINE ACCEPTABILITY OF ANY TEST RESULT BY COMPARISON OF THE RESULT WITH THE SPECIFICATION LIMITS, WITHOUT ANY ADDITIONAL CONSIDERATION OF THE MEASUREMENT UNCERTAINTY. WHEN REQUESTED, CARPENTER TECHNOLOGY CORPORATION WILL PROVIDE UNCERTAINTY BUDGETS FOR ANY TEST RESULT THAT IS NOT ADDRESSED BY THE INDUSTRY STANDARD.

TERRY L GABRILL
ADMINISTRATOR - QUALITY
CARPENTER TECHNOLOGY CORPORATION

H95 CA5662I7180.285

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die angegebenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification à l'usage d'une tierce personne.

Lot/Trace Number: 76496/AFS7057380

This document shall not be reproduced, except in full, without the written approval of HFS.

Date Created: Thursday, 23 July, 2020 02:38:16 PM



Heat Treat Certificate
HT00006346

Howmet Fastening Systems
Sylmar Operations
12975 Bradley Avenue
Sylmar CA 91342 USA
818-367-2261

Create Date
May 15, 2020

Lot Quantity
10,905

Lot Number
76496

Item Number
28048648

Work Order Number
10241

Part Description
VCC0204-4-4 - 4 OD 12 PT
TENSION

Specification

Precipitation Heat Treat, Inco718, Age Only per 23D0001 (Rev N/C)
Heat Treat Inco718, Age Only per AMS5662 (See material certificate for revision)
Precipitation Heat Treat, Inco718, Age Only per AMS5962 (Rev A)
Precipitation Heat Treat, Inco718, Age Only per NASM 85804 (Rev 1)
Precipitation Heat Treat, Inco718, Age Only per NASM 85730 (Rev N/C)
Heat Treat Inco718, Age Only per 23D0003 (Rev A)
Heat Treat Inco718, Age Only per BPS-F-69 (Rev BH)
Inco718, Age Only per VPS036 (Rev J)
Heat Treat Inco718, Age Only per BACB30PN (Rev AP)



Max Delgadillo

Max Delgadillo

May 15, 2020

Authorized Date

QC-195B

Lot / Trace Number: 76496 / HT00006346

Date Created: Thursday, 23 July, 2020 02:38:16 PM



Howmet Fastening Systems
Sylmar Operations
12975 Bradley Avenue
Sylmar CA 91342 USA
818-367-2261

100% NDT Certificate
NDT00006632

Create Date
Jun 29, 2020

Lot Number
76496

Work Order Number
10241

Lot Quantity
10,762

Item Number
28048648

Part Description
VCC0204-4-4 - 4 OD 12 PT
TENSION

Specification

Penetrant Inspection, Type 1, Method D, Sensitivity Level 2, Form a per VBS 041 (Rev A)
Penetrant Inspection, Type 1, Method D, Sensitivity Level 2, Form a per ASTM E1417/E1417M (Rev 16)



Arturo Flores

Arturo Flores

Jun 29, 2020

Authorized Date

QC-195B

Lot / Trace Number: 76496 / NDT00006632

Date Created: Thursday, 23 July, 2020 02:38:16 PM



Surface Treatment Certificate
ST00005909

Howmet Fastening Systems
Sylmar Operations
12975 Bradley Avenue
Sylmar CA 91342 USA
818-367-2261

Create Date
Jun 30, 2020

Lot Number
76496

Work Order Number
10241

Lot Quantity
10,762

Item Number
28048648

Part Description
VCC0204-4-4 - 4 OD 12 PT
TENSION

Specification

Salt Spray Test, 4 Hours per ASTM B117 (Rev 16)
Passivation, Passivation, Method 1, Type 8, Class 4 per AMS2700 (Rev F)



Jose Sanchez

Jose Sanchez

Jun 30, 2020

Authorized Date

13pcs salt spray samples

QC-1958

Lot / Trace Number: 76496 / ST00005909

Alcoa
Production
Systems & Rings

Sylvan Operations (Valley-Todoco)

Lab Report Page 1 of 2

Lot No: 76496	Lab No.: C3571	Part No.: VCC0204-4-4	Rev.: B	Date: 7/6/20
Material Type: INC718	Material Lab No.: AFS 7057380	Heat No.: 973903		
Lot Qty.: 10,749	Procurement Specification: VBS041	Rev.: A	Type/Class: APP. 036.1	Metallurgical Exam Sample Size: 8
Lab Report Initiated By: PJF	Date: 11/27/19	Lab Report Final Review (Requirements & Results) By:		Date: JUL 09 2020

Form Number MLR-007(Metallographic Examination) 1/15/16

METALLOGRAPHIC EXAMINATION (ML-004)			Etchant Used: ☐ Kallings ☐ Marbles ☐ Nital ☐ BPS-F-69 (INC 718) ☐ Kroll's	
Machine S/N: 3830000310 ☒ Calibration Current ☒			☐ BPS-F-69 (CRES) ☒ BPS-F-69 (MULTIPHASE) ☐ Other:	
Characteristics	Acc.	Rej.	Comments/Results	
☒ 100X ☐ 200X ☐ 500X				
☒ Cracks			☒ None	
☒ 100X ☐ 200X ☐ 500X			☒ Initial Examination Unetched	
☒ Discontinuities - Head			☒ Examination Etched	
☒ 100X ☐ 200X ☐ 500X			☒ Initial Examination Unetched	
☒ Discontinuities - Thread			☒ Examination Etched	
☐ 25X ☒ 50X ☐ 100X (Macro)			CREST CENTER LAPS .0037 IN.	
☒ Grain Flow - Head				
☐ 25X ☒ 50X ☐ 100X (Macro)				
☒ Grain Flow - Thread				
☒ 100X Grain Size 5 or finer, Occ ALA 3			☒ ASTM E112 ☐ E50TF133 (☒ Uniform, ☐ Duplex, ☐ Banded, ☐ Unrateable)	
☒ 100X Grain Growth None Allowed			PRE: 70 ALA: 50 ASA: OCC: ISOL:	
☒ 100X Banding			None	
☒ 100X ☐ 200X ☐ 500X			Strain Lines Observed: ☐ Yes ☐ No ☒ N/A Type: AUSTINETIC	
☒ Microstructure			☐ Completely Recrystallized	
☐ 100X ☐ 200X ☐ 500X			☒ Initial Examination Unetched	
☒ Recrystallization			☒ Examination Etched	
☐ 50X ☒ 100X ☐ 200X ☐ 500X			☐ Etchant Verified on Known Sample ☐ Marbles or ☐ Kallings Etchant (ref. ML-004)	
☒ Surface Condition				
☒ 100X (SCAN) ☐ 200X ☐ 500X				
☒ Alloy Depletion				
☐ 200X ☐ 500X				
☒ Carb / Decarb.			None	
☐ 200X ☐ 500X			☐ Initial Examination Unetched	
☐ IGA / IGO				
☐ 200X ☐ 500X				
☐ Alpha Case				
☒ 100X ☐ 200X ☐ 500X			None	
☒ Grinding Burns			None	
☒ 100X ☐ 200X ☐ 500X				
☒ Overheat				
☐ 50X ☐ 100X ☐ 200X ☐ 500X				
☐ Other				
☐ 50X ☐ 100X ☐ 200X ☐ 500X				
☐ Other				
☐ 50X ☐ 100X ☐ 200X ☐ 500X				
☐ Other				
Mount No./Location: (2) 9			Disposition: ☒ Accept ☐ Reject By: Date: 7-7-20	
In-Process Exam/Test			(A) ☐ Heading (B) ☐ Heat Treat ☐ Thread Roll ☐ Other	
Etchant Used: ☐ Kallings ☐ Marbles ☐ Nital ☐ Battleship ☐ BPS-F-69 (INC 718) ☐ BPS-F-69 (CRES) ☐ Other:			Test Load: Other:	
(A) Results/Comments: ☐ Satisfactory			☐ 20X ☐ 50X ☐ 100X ☐ 200X ☐ 500X Mount No./Location:	
(B) Results/Comments:				
(A) Sample Size:			Disposition: ☐ Accept ☐ Reject By: Date:	
(B) Sample Size:			Disposition: ☐ Accept ☐ Reject By: Date:	

See form number above

This document shall not be reproduced, except in full, without the written approval of HFS.



Lab Report Page 2 of 2

Sylmar Operations (Valley-Todoco)

Lot No: 76496	Lab No.: C3571	Part No.: VCC0204-4-4	Rev.: B	Date:
Material Type: INC718	Procurement Specification: VBS041	Rev.: A	Type/Class: APP. 036.1	Lot Qty.: 10,749
Notes:				
Lab Report Initiated By: PJF	Date: 11/27/19	Lab Report Final Review (Requirements & Results) By:		Date:

Form Number MLR-007(Standard Mechanical) 1/15/16

Standard Mechanical Testing									
TENSILE (ML-005) ☐ N/A			SHEAR (ML-006) ☐ N/A			FATIGUE (ML-006) ☐ N/A			
Min lbs: 8,890	Max lbs: 10,300		Min lbs: 12,175	Max lbs:		Min. Load (lbs): 440			
PSI Min:	PSI Max:		PSI Min:	PSI Max:		Max Load (lbs): 4,440			
Ka:	X1-KaS1:		Ka:	X1-KaS1:		Required Cycles: 45K min./65K avg/130K disc			
Test Method: ☒ NASM1312-8			Test Method: ☒ NASM1312-13			Test Method: ☒ NASM1312-11			
Mach. S/N: 78217 ☐ 301512 ☐ 301517 ☐			Mach. S/N: 78217 ☐ 301512 ☐ 301517 ☐			Mach. S/N: 192767 ☐ 176073 ☐			
Calibration Current ☐			Calibration Current ☐			Calibration Current ☐			
Range: 120,000 lbs			Range: 120,000 lbs			CL. A Nut ☐ Threaded Adaptor ☐			
Load Rate ☒ 4,910 lbs/min.			Load Rate ☒ 10,000 lbs/min.			CPM: Average Cycles:			
% of Scale ☐			% of Scale ☐			Load Amplitude: 1,998 Mean Load: 2,442			
☐ No Strain Lines (200/220FC class)			Wedge: Max. Shk. Reduction: ☐ PSI ☐ Shk. Red.			Cycles Run: Fracture Location			
Results lbs.	Fracture Location		Results lbs.	Results PSI		1.	☐ DISC ☐ T ☐ U ☐ H		
1.	☐ T ☐ U ☐ H		2.			2.	☐ DISC ☐ T ☐ U ☐ H		
2.	☐ T ☐ U ☐ H		3.			3.	☐ DISC ☐ T ☐ U ☐ H		
3.	☐ T ☐ U ☐ H		4.			4.	☐ DISC ☐ T ☐ U ☐ H		
4.	☐ T ☐ U ☐ H		5.			5.	☐ DISC ☐ T ☐ U ☐ H		
5.	☐ T ☐ U ☐ H		6.			6.	☐ DISC ☐ T ☐ U ☐ H		
6.	☐ T ☐ U ☐ H		7.			7.	☐ DISC ☐ T ☐ U ☐ H		
7.	☐ T ☐ U ☐ H		8.			8.	☐ DISC ☐ T ☐ U ☐ H		
8.	☐ T ☐ U ☐ H		9.			☐ Accept ☐ Reject			
9.	☐ T ☐ U ☐ H		10.			By: Date:			
10.	☐ T ☐ U ☐ H		☐ Accept ☐ Reject			☐ Load Based on 60% of the Minimum Rated UTS			
☐ Accept ☐ Reject			By: Date:			Room Temp. °F before test:			
Room Temperature: 59°F-79°F ☐			Proof Load: 12,784 lbs			Room Temp. °F after test (5°F diff. max.):			
Tooling S/N's:			Room Temperature: 59°F-79°F ☐			Tooling S/N's:			
Calibration Current ☐			Tooling S/N's:			Calibration Current ☐			
Notes: N/A for grip length 2D			Notes: N/A for grip length 2D			Notes: N/A for grip length 2D			

See form number above

This document shall not be reproduced, except in full, without the written approval of HFS.



Boeing Distribution Services Inc.

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 3760 W. 108th Street, Miami, FL 33018 • SITA: MIAMMCR
www.BoeingDistribution.com

Shipped From: 3760 W. 108TH ST DOOR B, MIAMI, FL 33018

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 Boeing Distribution Services.

FIRM: AJ WALTER AVIATION LTD

PURCHASE ORDER#: CPE135856

QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	Exp Date	EXP DATE
750	EA	VCC0204-4-4	VCC0204-4-4	76496	HOWMET/ALCOA/ARCONIC	06710		

BDSI CTRL/LOT # :2021CME905


Michelle Suggs
Quality Leader

01/19/22

Inv # 01/19/22