



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

JP9M65

PAGE 1 OF 2

SEND TO ACCOUNTING

SOLD TO:
006419

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



SHIP TO:

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

ORDER NO. cpell16510		DATE 01/16/19	SHIP VIA FEDX INTL P1 COLL		TERMS NET 60		SHIPPING TERMS FCA-SELLER'S WH		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION			PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
	10	ABS5800B024B TARIFF: 8484.10.0000 SCHEDULE B: 8484.10.0000 Description SEAL Long Description SEAL, PTFE, FOR MACHINED V-FLANGE CONNEC ECCN :9A991.d **REF: ABS5800B024B **CUST PN: ABS5800B024B			38.350	EA	10	0	0.00
	800	ABS0804-5 TARIFF: 7318.16.0030 SCHEDULE B: 7318.16.0000 Description NUT ECCN :EAR99 CTRL#: 2018L28242 Mfrdte: 07/01/18 Exp Dte: 06/27/33 LOT#: M055456-000 LOT QTY: 800 Country of Origin MEXICO **REF: ABS0804-5 **CUST PN: ABS0804-5 These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated			5.760	EA	0	800	4,608.00
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY KLX INC.									

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 N W 15TH TERRACE, MIAMI, FL 33172

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

Vice President of Quality

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/>





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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

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PAGE 2 OF 2

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006419



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

SHIP TO:

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

ORDER NO.		DATE	SHIP VIA	TERMS	SHIPPING TERMS		
cpe116510		01/16/19	FEDX INTL P1 COLL	NET 60	FCA-SELLER'S WH		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
		into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations. Ultimate Destination AJ WALTER AVIATION LTD THE HEADQUARTERS MAYDWELL AVENUE SLINFOLD WEST SUSSEX RH13 0AS UK FREIGHT ACCT# 1242-7750-7 TEL# 44-140-3710936					
INVOICE#.....	JP9M65						
ORDER#.....	BXL5F9						
CONSOLIDATE#..	1J3SKH						
						SUBTOTAL :	4,608.00
						HANDLING :	0.00
						DISC/ALL :	0.00
						INCM FRT :	0.00
						FREIGHT :	0.00
						TOTAL :	4,608.00USD
							U.S. CURRENCY
dtm	BXL5F9	SHIPPED ON 01/16/19					

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INVOICE NUMBER

JP9M66

PAGE 7 OF 7

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MAYDWELL AVENUE
SLINFOLD RH13 0AS
UK



SHIP TO:

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

ORDER NO.		DATE	SHIP VIA	TERMS	SHIPPING TERMS		
CP18879		01/16/19	FEDX INTL P1 COLL	NET 60	FCA-SELLER'S WH		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
		FREIGHT ACCT# 1242-7750-7 TEL# 44-140-3710936					
</							

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SHIPPED FROM: 10000 N W 15TH TERRACE, MIAMI, FL 33172

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ARCONIC

Packing Slip



Packing Slip: 9948200411

Page: 1

Bill To: 5574
KLX INC.
ATTN: ACCOUNTS PAYABLE
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
KLX INC
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ARCONIC FASTENING SYSTEMS
FULLERTON OPERATIONS PLANT 1
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA
714-871-1550

Notice to Subsequent Purchaser or Repacker.
These articles are imported. The requirements of 19 U.S.C. 1304 & CFR part 134 provide that the articles or their containers must be marked in a conspicuous place as legibly, indelibly & permanently as the nature of the manner as to indicate to an ultimate purchaser in the United States, the English name of the country of origin of the article.

CURE DATE: 3Q 2018
USE BY: 3Q 2033

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
12/10/18	F634364	008S650			

Line/Rel	Item	U/M	Qty Ordered	Qty To Pack
1-1	CVY847 F52543-5	EA	5,000	2,220

C/I: ABS0804-5 *Rev. / SS 2*
PO Item #: 1

Cust Date: 10/04/18
Key Date: 09/12/18

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Lot: M055456-000 COO:MEXICO

Waybill:

ECCN:EAR99 Schedule-B Number:7318.16.0000

HTS-Code:7318.16.0085

CURE DATE: 3Q 2018

USE BY DATE: 3Q 2033

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

MFG. C OF C CHEM & PHYS TEST REPORTS R
EQ'D

CHARGES ON LINE # 2 INVOICE WITH # 1

SHIPPING: FEDX GRD COLLECT ACCT# 0331-0

** PLEASE RECYCLE RESPONSIBLY **

ARCONIC GLOBAL FASTENERS & RINGS, INC.

CAGE CODES: Kaynar Products - 15653

Eagle Products - 68776

Rosan Products - 68776

Republic Products - 52828

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. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, 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 NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO AMS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

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Page: 2

Bill To: 5574
KLX INC.
ATTN: ACCOUNTS PAYABLE
P.O. BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
KLX INC
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ARCONIC FASTENING SYSTEMS
FULLERTON OPERATIONS PLANT 1
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA
714-871-1550

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These articles are imported. The requirements of 19 U.S.C. 1304 & CFR part 134 provide that the articles or their containers must be marked in a conspicuous place as legibly, indelibly & permanently as the nature of the manner as to indicate to an ultimate purchaser in the United States, the English name of the country of origin of the article.

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
12/10/18	F634364	008S650			

Line/Rel	Item	U/M	Qty Ordered	Qty To Pack
149-0	IF 150 LBS OR MORE: SHIP FEDEX FREIGHT ECONOMY COLLECT ACCT# 300 176 86 0. 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 CLAU SE 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 THI S SHIPMENT AFSR COMPLIES WITH DFARS 252.225-7009 RE Q. BUYER: ANNE CORREIA PHONE: REV: ISS2 chem & phys certs			

** PLEASE RECYCLE RESPONSIBLY **

ARCONIC GLOBAL FASTENERS & RINGS, INC.

CAGE CODES: Kaynar Products - 15653

Eagle Products - 68778

Rosan Products - 68776

Republic Products - 52828

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USA
714-871-1550

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Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
12/10/18	F634364	008S650			

Line/Rel	Item	U/M	Qty. Ordered	Qty To Pack
1-1	CVY847 F525437-5	EA	5,000	2,224

C/I: ABS0804-5 *Rev. ISS 2*
PO Item #: 1

Cust Date: 10/04/18
Kay Date: 09/12/18

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Lot: M055456-000 COO:MEXICO

Waybill: ECCN:EAR99 Schedule-B Number:7318.16.0000

HTS-Code:7318.16.0085

CAGE DATE: 30 2018

USE BY DATE: 30 2022

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

MFG. C OF C CHEM & PHYS TEST REPORTS R
EQ'D
CHARGES ON LINE # 2 INVOICE WITH # 1

SHIPPING: FEDX GRD COLLECT ACCT# 0331-0

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with the contract, drawing specifications, and other applicable documents. All required process certifications, chemicals and physical test reports are on file subject to examination. This document must not be reproduced except in full and relates only to the items tested.

Michele M. Varela
MICHELE M. VARELA
Quality Manager
Fullerton Operations

ARCONIC GLOBAL FASTENERS & RINGS, INC.

CAGE CODES: Kaynar Products - 15653 • Eagle Products - 66778 • Rosan Products - 66778 • Republic Products - 52828

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**ARCONIC**

Packing Slip



** PLEASE RECYCLE RESPONSIBLY **

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FULLERTON OPERATIONS PLANT 1
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA
714-871-1550

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Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight	Pkgs #
12/10/18	F634364	008S650			

Line/Rel	Item	U/M	Qty Ordered	Qty To Pack
----------	------	-----	-------------	-------------

149-0 IF 150 LBS OR MORE: SHIP FEDEX
FREIGHT ECONOMY COLLECT ACCT# 300 176 86
0. 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 CLAU
SE 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 THI
S SHIPMENT
AFSR COMPLIES WITH DFARS 252.225-7009 RE
Q.
BUYER: ANNE CORREIA
PHONE:
REV: ISS2
chem & phys certs

CERTIFICATE OF CONFORMANCE

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MICHELE M. VARELA
Quality Manager
Fullerton Operations

ARCONIC GLOBAL FASTENERS & RINGS, INC.

CAGE CODES: Kaynar Products - 15653 • Eagle Products - 68776 • Rosan Products - 86776 • Republic Products - 52828

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**ARCONIC**

Arconic Fastening Systems
Fullerton Operations Plant 1
800 S. STATE COLLEGE BLVD.
FULLERTON, CA 92631

NO.

8250737

Page 1 of 7

Lot No.

M055456-000**TEST REPORT**

Supplier Item No.
CVY847

Supplier Part No.
F52543-5

Interchange Part No.
3D0133C5 Rev. E

Interchange Part No.
ABS0804-5 Rev. ISS 2

Interchange Part No.
D57251317218 Rev. ISS L

Interchange Part No.
F52543-5 Rev. B

Interchange Part No.

Interchange Part No.

Manufactured Quantity
2,220

Mfg. Date

Generic Description
NUT CHANNEL ASSEMBLY

Thread Size
.3125-24

PERFORMANCE

NASM25027 REV. 1

Material Spec. # 1
AMS 5688-L

Mill Heat No.
244Y

Control Heat No.
DX22548

Material Supplier
RADCLIFF WIRE INC

Material Spec. # 2
AMS 5525-J

Mill Heat No.
972499

Control Heat No.
AA23052

Material Supplier
CARPENTER TECHNOLOGY CORP

Material Spec. # 3
AMS 5085-H

Mill Heat No.
AMRB06201

Control Heat No.
CC20235F

Material Supplier
CALSTRIP INDUSTRIES INC

Material Spec. # 4
AMS-QQ-A-225/9A

Mill Heat No.
10066815

Control Heat No.
EL22942

Material Supplier
AEROTECH ALLOYS LLC

Special Process Requirements:

THREADS AND GAUGING PER AS8879D
and ASME B1.3M SYS. 22

MIN EQUALS BKWY MAX EQUALS INST

MAGNETIC PERMEABILITY LESS THAN 2.0

SEAL MEETS THE REQUIREMENTS OF MIL-PRF

-6855F, CLASS 1, GRADE 60, DUROMETER A60

COLOR BLACK

CURE DATE:3Q 2018 USE BY DATE:3Q 2033

TEST

No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 070 TORQUE-OUT 160" lb. min.	IN#	1	1	160.00			160.00	
		2	1	160.00				
		3	1	160.00				
		4	1	160.00				
		5	1	160.00				

The product identified on this Certificate has been manufactured, tested and unless otherwise noted, conforms in all respects to the applicable drawings, specifications and standards. Complete reports of physical and chemical tests are on file for examination. If no specified customer quality level is required, goods conform to sellers quality level. All Damages Exceeding Price are Excluded. For items certified to BPS-N-70 alloy verification has been performed on parts with a date of manufacturing on or after January 1, 2001. Quality system sampling plan conforms to the requirement of QAP EQ001, QAP EQ002, QAP EQ003. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

ARCONIC GLOBAL FASTENERS & KINGS, INC.

MICHELE M. VARELA, QA MGR.

SHIPPER#: 9948200411

Rev. 02/18 Form 11199

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ARCONIC

Arconic Fastening Systems
Fullerton Operations Plant 1
800 S STATE COLLEGE BLVD.
FULLERTON, CA 92831

NO.

8250737

Page 2 of 7

Lot No.

M055456-000

TEST REPORT

Supplier Item No.
CVY847

Supplier Part No.
F52543-5

TEST		UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
2 - 080 PUSH-OUT		LBS	1	1	125.00			125.00	
125 lb. min.			2	1	125.00				
			3	1	125.00				
			4	1	125.00				
			5	1	125.00				

Component #	Lot Number	Supplier Part No.	Supplier Item No.
1	6516184-000	F39325-5W	B3R200

Manufactured Quantity	Mfg. Date	Generic Description	Thread Size
	01/27/18	RETAINING CLIP	

Plating	
AMS-QQ-P-35A TYII / AMS2700E METHOD 1 TY II	

Material Spec. #	Mill Heat No.
1	244Y

Control Heat No.	Material Supplier
DX22548	RADCLIFF WIRE INC

Component #	Lot Number	Supplier Part No.	Supplier Item No.
2	6518365-000	F52543-5FB	CVY848

Manufactured Quantity	Mfg. Date	Generic Description	Thread Size
	08/25/18	HOUSING SELF SEALING	

HEAT TREAT	Plating
AMS-H-6875 REV. B	AMS-QQ-P-35A TYII / AMS2700F METHOD 1 TY II

Material Spec. #	Mill Heat No.
1	972499

Control Heat No.	Material Supplier
AA23052	CARPENTER TECHNOLOGY CORP

TEST-----		UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 110 HARDNESS		RC	1	1	35.00	(77.70)			
HRC 32 min. (per drawing)			2	1	34.00				
3 - 113 Hardness (HR15N)			1	1	(77.20)				
4 - 047 HIGH HUMIDITY TESTING 24 HOURS		EA	1	1			Pass		
			2	1			Pass		
			3	1			Pass		
			4	1			Pass		
			5	1			Pass		
			6	1			Pass		
			7	1			Pass		

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MICHELE M. VARELA, QA MGR.

ARCONIC GLOBAL FASTENERS & RINGS, INC.

SHIPPER#: 9948200411

Rev. 02/18 Form 11/188

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ARCONIC

Arconic Fastening Systems
Fullerton Operations Plant 1
800 S. STATE COLLEGE BLVD.
FULLERTON, CA 92831

NO.

8250737

Page 3 of 7

Lot No.

M055456-000

TEST REPORT

Supplier Item No.
CVY847

Supplier Part No.
F52543-5

TEST	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
No. Description								
		8	1			Pass		
		9	1			Pass		
		10	1			Pass		
		11	1			Pass		
		12	1			Pass		
		13	1			Pass		

Component #	Lot Number	Supplier Part No.	Supplier Item No.
3	6512643-000	F39326-5XN	B3R320
Manufactured Quantity	Mfg. Date	Generic Description	Thread Size
	0	NUT-ELEMENT	.3125-24
HEAT TREAT	Plating		
AMS-H-6875 REV. B	AMS-QQ-P-416D TY II CL III		
Lubrication	PERFORMANCE		
AS5272E TY I	NASM25027 REV. 1		
Material Spec. #	Mill Heat No.		
AMS 5085-H	AMRB06201		
Control Heat No.	Material Supplier		
CC20235F	CALSTRIP INDUSTRIES INC		

TEST	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
No. Description								
1 - 010 Torque Test	IN#	1	1	41.20	41.70		6.50	60.00
60 LBS MAX 6.5 MIN			7	17.25	19.30			
			15	43.75	44.75			
		2	1	29.85	52.05			
			7	19.55	30.20			
			15	19.20	19.55			
		3	1	49.55	54.60			
			7	25.20	25.65			
			15	21.05	18.30			
		4	1	42.55	48.05			
			7	23.35	26.55			
			15	12.80	11.95			
		5	1	55.15	57.10			
			7	35.20	38.10			
			15	26.00	26.50			
		6	1	45.36	43.00			
			7	34.65	32.50			
			15	27.25	29.15			

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MICHELE M. VARELA, QA MGR.

ARCONIC GLOBAL FASTENERS & RINGS, INC.

Rev. 02/18 Form 11199

SHIPPER#: 9948200411

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**ARCONIC**

Arconic Fastening Systems
Fullerton Operations Plant 1
800 S. STATE COLLEGE BLVD
FULLERTON, CA 92831

NO.

8250737

Page 4 of 7

Lot No.

M055456-000**TEST REPORT**

Supplier Item No.
CVY847

Supplier Part No.
F52543-5

TEST No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
3 - 020 TENSILE TEST NUT THREAD STRIPPED	LBS	7	1	49.40	49.25			
			7	20.70	32.35			
			15	44.90	21.15			
		8	1	28.50	49.85			
			7	23.35	29.90			
			15	51.40	26.35			
		9	1	51.40	51.60			
			7	28.90	30.30			
			15	19.70	18.20			
		10	1	53.15	50.45			
			7	27.15	31.00			
			15	18.65	20.20			
		1	1	10240.00			7390.00	
		2	1	7800.00				
		3	1	7800.00				
5 - 050 Embrittlement 23 hours	HRS	4	1	7800.00				
		5	1	7800.00				
		6	1	7800.00				
		7	1	7800.00				
		8	1	7800.00				
		9	1	7800.00				
		10	1	7800.00				
		1	1			Pass		
		2	1			Pass		
		3	1			Pass		
6 - 110 Hardness HRC 42-46 PER DWG	RC	4	1			Pass		
		5	1			Pass		
		6	1			Pass		
		7	1			Pass		
		8	1			Pass		
		9	1			Pass		
		10	1			Pass		
		1	1	42.00	43.00			
		2	1					
		3	1					
7 - 113 Hardness (HR15N)	-	4	1	(81.50)	(82.00)			
		5	1					

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ARCONIC GLOBAL FASTENERS & KINGS, INC.

MICHELE M. VARELA, QA MGR.

SHIPPER#: 9948200411

Rev. 02/18 Form 11199



ARCONIC

Arconic Fastening Systems
Fullerton Operations Plant 1
800 S. STATE COLLEGE BLVD.
FULLERTON, CA 92831

NO.

8250737

Page 5 of 7

Lot No.

M055456-000

TEST REPORT

Supplier Item No.

CVY847

Supplier Part No.

F52543-5

Component #

Lot Number

6507934-000

Supplier Part No.

F1968-5XN

Supplier Item No.

BFP680

Manufactured Quantity

Mfg. Date

0

Generic Description

NUT ELEMENT

Thread Size

.3125-24

Heat Treat

AMS-H-6875 REV. B

Plating

AMS-QQ-P-416 TY II CL II REV. D

Lubrication

AS5272E TY I

Non-Destruct

ASTM E1444/E1444M REV. 16 SAMPLE

PERFORMANCE

NASM25027 REV. 1

Material Spec. #

AMS 5085-H

Mill Heat No.

AMRB06201

Control Heat No.

CC20235F

Material Supplier

CALSTRIP INDUSTRIES INC

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TEST								
No. Description	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/Fail	MINIMUM Requirement	MAXIMUM Requirement
1 - 010 TORQUE TEST MAX 60, MIN 6.5 (CYCLES 1,7,15)	IN#	1	1	41.20	41.70		6.50	60.00
			7	17.25	19.30			
			15	43.75	44.75			
		2	1	49.85	52.05			
			7	30.20	29.85			
			15	19.20	19.55			
		3	1	49.55	54.60			
			7	25.20	25.65			
			15	21.05	18.30			
		4	1	42.55	48.05			
			7	23.35	26.55			
			15	12.80	11.95			
		5	1	55.15	57.10			
			7	35.20	38.10			
			15	26.00	26.50			
		6	1	45.36	43.00			
			7	34.65	32.50			
			15	27.25	29.15			
		7	1	49.40	49.25			
			7	28.20	32.35			
			15	20.70	21.15			
		8	1	44.90	49.85			
			7	28.50	29.90			
			15	23.35	26.35			
		9	1	51.40	51.60			

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MICHELE M. VARELA, QA MGR.

ARCONIC GLOBAL FASTENERS & RINGS, INC.

SHIPPER#: 9948200411

Rev 02/18 Form 11199

**ARCONIC**
 Arconic Fastening Systems
 Fullerton Operations Plant 1
 800 S. STATE COLLEGE BLVD.
 FULLERTON, CA 92831

NO.

8250737

Page 6 of 7

Lot No.

M055456-000

TEST REPORTSupplier Item No.
CVY847Supplier Part No.
F52543-5

TEST	UOM	SAMPLE Number	RESULT Cycle	MINIMUM Value	MAXIMUM Value	PASS/ Fail	MINIMUM Requirement	MAXIMUM Requirement
3 - 020 TENSILE TEST NUT THD STRIPPED	LBS		7	28.90	30.30			
			15	19.70	18.20			
		10	1	53.15	50.45			
			7	27.15	31.00			
			15	18.65	20.20			
		1	1	10240.00			7390.00	
		2	1	7800.00				
		3	1	7800.00				
		4	1	7800.00				
		5	1	7800.00				
4 - 050 EMBRITTLEMENT 23 HOURS	HRS	6	1	7800.00				
		7	1	7800.00				
		8	1	7800.00				
		9	1	7800.00				
		10	1	7800.00				
		1	1			Pass		
		2	1			Pass		
		3	1			Pass		
		4	1			Pass		
		5	1			Pass		
5 - 110 HARDNESS HRC 42-46 9 - 113 Hardness (HR15N)	HRC	6	1			Pass		
		7	1			Pass		
		8	1			Pass		
		9	1			Pass		
		10	1			Pass		
		1	1	42.00	43.00			
		1	1	(81.50)	(82.00)			

Component # Lot Number
5 S000485-000Supplier Part No.
F0154A5000B1N051500Supplier Item No.
HAL590

Manufactured Quantity

Mfg. Date
02/03/17

Generic Description

Thread Size

Material Spec. #
AMS 5085-HMill Heat No.
AMRB06201Control Heat No.
CC20235FMaterial Supplier
CALSTRIP INDUSTRIES INC

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ARCONIC GLOBAL FASTENERS & RINGS, INC.

MICHELE M. VARELA, QA MGR.

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**ARCONIC**

Arconic Fastening Systems
Fullerton Operations Plant 1
800 S. STATE COLLEGE BLVD.
FULLERTON, CA 92831

NO.

8250737

Page 7 of 7

Lot No.

M055456-000

TEST REPORTSupplier Item No.
CVY847Supplier Part No.
F52543-5

Component #

6 6518447-000

Supplier Part No.
F39325-5RTSSupplier Item No.
B3R190

Manufactured Quantity

Mfg. Date

Generic Description
RETAINER SEAL

Thread Size

Plating

MIL-PRF-6855 REV. E TY II CL I

Material Spec. # 1

AMS-QQ-A-225/9A

Mill Heat No.

10066815

Control Heat No.

EL22942

Material Supplier

AEROTECH ALLOYS LLC

Component #

7 M051632-000

Supplier Part No.
F39325-5RTSupplier Item No.
B3R180

Manufactured Quantity

Mfg. Date

03/31/18

Generic Description
RETAINER SEAL

Thread Size

Plating

MIL-A-8625 TY II CL I REV. F

Material Spec. # 1

AMS-QQ-A-225/9A

Mill Heat No.

10066815

Control Heat No.

EL22942

Material Supplier

AEROTECH ALLOYS LLC

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MICHELE M. VARELA, QA MGR.

ARCONIC GLOBAL FASTENERS & RINGS, INC.

SHIPPER#: 9948200411

Rev. 02/18 Form 11199

Date Created: Tuesday, 11 December, 2016 10:40:09 AM



97 Ronzo Road • Bristol, CT 06010
Ph: (860) 583-1305 • Fax: (860) 583-6553
www.radcliffwire.com

Cert of Conformance / Material Cert

Sold To: ARCONIC FASTENING SYSTEMS &
800 SOUTH STATE COLLEGE
BLVD
FULLERTON, CA 92831

Date Shipped: 8/22/2017
PO #: 220958477

Radcliff No.: 141938

Heat No.: 244Y

Qty. Shipped: 679 LBS-7-17" WOOD
SPOOLS

DX22548

Item Description

.030 X .080/.085 T302 Stainless Steel SQUARE EDGE AMS 5688L

Melting Country: United States

Producing Country: United States

Notes:

ITEM# GPV732601
RADIO ACTIVE FREE

Chemical Analysis

C: 0.055% ✓

Co: 0.18% ✓

Cr: 18.12% ✓

Cu: 0.39% ✓

Mn: 1.5% ✓

Mo: 0.37% ✓

N: 0.059% ✓

Ni: 8.06% ✓

P: 0.027% ✓

S: 0.0015% ✓

Si: 0.28% ✓

Mechanical Properties

Tensile: 265 KSI

Rockwell: C 48

We certify that the chemical analysis, physical properties, and mechanical test results are correct as contained in our records, and that they conform to customer requirements.

Material as shipped, is free from mercury contamination.

All material complies with RoHS and REACH directives unless a lead plating has been specified.

Shipment does not contain any counterfeit material.

Material is DFAR compliant

Lisa Platek

9/6/17
K626

Lisa Platek

Certification Clerk

Lot/Trace Number: DX22548

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Siri Wire

Manufacturers of Stainless Steel Wire

90 Wauregan Road
 Danielson, CT 06239
 Voice: 860-774-0607 Fax: 860-774-0785
 E-mail: tjoly@siriwire.com ISO: 9001:2015

CERTIFICATE OF ANALYSIS

SOLD TO: Radcliff Wire Inc.
 PO Box 603
 Bristol, CT 06011

SHIP TO: Radcliff Wire//
 97 Ronzo Road
 Bristol, CT 06010

SALES ORDER 722	WORK ORDER 1346 S1412 L1402	SHIP DATE 08/09/2017	CUSTOMER PO 52512				
DIAM ORDERED .0615	QTY SHIP (LBS) 681	COUNTRY OF ORIGIN USA		MILL SOURCE North American Stainless			
MATERIAL 302	HEAT # 244Y	MERCURY FREE Yes	ROHS COMPLIANT Yes	DFARS COMPLIANT Yes			
C .055	Co .18	Cr 18.12	Cu .39	Mn 1.50	Mo .37	N .059	Ni 8.06
P .027	S .0015	Si .28					
DIAM SHIPPED .0613	TENSILE 250,119						
SPECS: --							
ADDITIONAL NOTES:							

Authorized signature: _____

Tammy Joly, General Manager

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**NORTH AMERICAN
STAINLESS**

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 264924 02 Mail To: Ship To: Date: 2/14/2017 Page: 1 Of 1
PRECISION METALS SERVICES, INC. PRECISION METALS SERVICES, INC. Steel: 304
418 STUMP ROAD 418 STUMP ROAD Finish: ERAP
MONTICELLO, PA 18936 MONTICELLO, PA 18936 Dia/Thk: .2165 in
Customer: 3955 001 Your Order: LP 58592 4 Item Code: 304H Length:
Your Order: P003199 Corrosion: ASTM A262 Prac A/E OK

PRODUCT DESCRIPTION:
Wire Rod WRAP
UNS S30400, EN 10204 3.1
ASTM A355/05, ASTM A580/08 (CHEM ONLY)

REMARKS:
COMPLIES W/REQUIREMENTS OF DEAR 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. ERP+MOD-CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight		
WE09046	2428	WE09047	2300	WE09048	2294	WE09049	2548	WE09154	2550	WE09155	2234

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

MAS Heat	Supplier Heat	C %	CO %	CR %	CU %	MO %	NI %	P %	S %		
244Y	UG	.055	.18	18.12	.39	1.50	.37	.059	8.06	.027	.0015
		SI %									
		.28									

MECHANICAL PROPERTIES

1 d o i c r	HB	Mo.	.273 ksi	UTS ksi	RA %	ELong %	2°
WE09046	R L	132.0	34.01	92.34	84.07	65.05	
WE09047	R L	132.0	34.01	92.34	84.07	65.05	
WE09048	R L	132.0	34.01	92.34	84.07	65.05	
WE09049	R L	132.0	34.01	92.34	84.07	65.05	
WE09154	R L	132.0	34.01	92.34	84.07	65.05	
WE09155	R L	132.0	34.01	92.34	84.07	65.05	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical
Dept. Mgr.

KRIS LARK

Date Created: Tuesday, 11 December, 2018 10:40:09 AM

Precision Metal Services, Inc.
418 Stump Road, Montgomeryville, PA, 18936
Phone: (215) 881-0225, 1-800-835-4885 Fax: (215) 881-0366
Email: pms@precisionmetalservices.com
Website: www.precisionmetalservices.com

MATERIAL TEST REPORT

1018414

SOLD TO:
SIRI WIRE
90 MAUREGAN ROAD
DANIELSON, CT 06239

SHIP TO:
SIRI WIRE
90 MAUREGAN ROAD
DANIELSON, CT 06239

Heat Number	Product Description	Certificate No	Certificate Date
244Y	SRC 304H DOMESTIC .2950" x Coil	260349 08	02/01/17

Sales Order	Salesperson	Customer PO	Contact	Country Of Origin
W013866	KPH/GSN	20170222	TAMMY JOLY	U.S.A.

Chemical Analysis (Weight %)

C	Mn	P	Si	S	Cr	Ni	Mo	Cu	Co	V	Ti
.0550	1.5000	.0270	.2800	.0015	18.1200	8.0600	.3700	.3900	.1800		
Cb	N	Pb	Al	Fe	Cb+	Mg	B	Zn	Sn	Bi	Se
	.0590										

Mechanical Properties

Yield Strength	Tensile Strength	% EL	% RA	Hardness	Grain Size
37.1 KSI (255.80 MPA)	90.9 KSI (626.73 MPA)	65%	82%	HB 126	

Other Tests / Remarks

COMPLIES W/REQUIREMENTS OF DFARS 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS, BAF+ADD+CC, NO WELD REPAIR, MELTED AND MPQ, IN
USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION.
WIRE ROD, HRAF, UNS S30400, EN 10204 3.1, ASTM A555/05, ASTM
A580/08 (CHEM ONLY), CORROSION: ASTM A262 PRAC. A/E OK.

Quality Control Manager:

Kevin P. Hughes
Kevin P. Hughes

Date: 02/13/17

Lot/Trace Number: DX22548

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CERTIFICATE OF TESTS

CERT SERIAL# 001111662

**CARPENTER**

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

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS FORM MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL TRADE 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.

05/18/18

CUSTOMER/BESTELLER/CLIENT

ARCONIC FASTENING SYSTEMS &
RINGS - FULLERTON OPERATIONSP O BOX 3001
FULLERTON

CA 92631

SELLER/VERKAUFER/VENDEUR PAGE 1 OF 2

AA23052

RAN

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

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

DATE/DATE/DATE

ATTENTION/GEWICHT/POIDS

221018660

W71657

05/18/18

1231.000

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

972499

PRODUCT DESCRIPTION: CONSUMET A286 COLD FINISH SOLUTION ANNEALED
PART NUMBER: GPV*221971

SPECIFICATION: AMS 5525 REV J REAFFIRMED (10/01/12)
ALCOA QAS 6-1 (09/30/14) EXCPT LTR (11/06/15) APPROVED
DFARS 1998 EDITION
FAIRCHILD MS 300 REV 10 (11/09/17) EXCPT LTR (11/20/17) APPROVED
AMS 2242 REV G (06/08)
PRATT MCL F-17 REV C (07/01/15)
PRATT PWA 300 REV BP (05/23/16)
AS 9100 REV D (09/16)
AS 6279 REV A (05/16)

SIZE 2.312000 X 0.025000 IN. (58.72 X 0.64 MM) FLT STP

HEAT CHEMISTRY (WT%):

C	MN	SI	P	S	CR
0.04	0.19	0.17	0.014	0.0005	14.09
NI	MO	CU	CO	AL	TI
25.07	1.28	0.24	0.16	0.16	2.06
V	B				
0.25	0.006				

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.

THE CHEMICAL ANALYSIS OF THIS HEAT HAS BEEN PERFORMED BY THE CARPENTER SPECIALTY ALLOYS CHEMICAL LABORATORY, (CODE NUMBER PRI 100004), WHICH WAS ACCREDITED TO THE ISO/IEC 17025.

MATERIAL PRODUCED UNDER LCS IN ACCORDANCE WITH P&WA F-17.

CARPENTER TECHNOLOGY HAS COMPLIED WITH ALL PRODUCER REQUIREMENTS OF AS 6279

THIS HEAT MELTED BY THE VIM + VAR PROCESSES

MILL HEAT TREATMENT:

TYPE	ANNEAL
TEMP	2012F (1100C)
TIME AT	CONTINUOUS FURNACE
QUENCH	HYDROGEN

CONTINUED ON NEXT PAGE

5/25/18

K626

CERTIFICATE OF TESTS

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 001111662

**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 CLAIMS ON THIS DOCUMENT MAY BE PUNISHED AS A VIOLATION UNDER FEDERAL STATUTES INVOLVING FEDERAL TRADE COMMISSION CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENTING THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE FACIL BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCES CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

05/18/18

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 2

ARCONIC FASTENING SYSTEMS &
RINGS - FULLERTON OPERATIONS

P O BOX 3001
FULLERTON CA 92631

RAN

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

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

DATE / DATUM / DATE

QUANTITÉ / MONTANT / QUANT.

221018660

W71657

05/18/18

1231.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE 972499

HARDNESS AS SHIPPED 60HRC (7815T)

BEND TEST - SATISFACTORY (TRANSVERSE)

(T)RANSVERSE (L)ONGITUDINAL T
TENSILE STRENGTH, KSI(MPA) 94.5 (652)
ELONGATION IN 2.00", % 38.0

GRAIN SIZE PER ASTM E112: 8 (KALLINGS NO.2)

CAPABILITY

1325 F (718 C), 16 HR AIR COOL

HARDNESS 34HRC (7715N)

SMOOTH STRESS RUPTURE
TEST TEMP 1200 F (649 C)
STRESS, KSI(MPA) 67.5 (465)
TEST DISCONT. @ 23.0

(T)RANSVERSE (L)ONGITUDINAL L
YIELD STRENGTH, (0.20 %) KSI(MPA) 105.0 (724)
TENSILE STRENGTH, KSI(MPA) 157.0 (1082)
ELONGATION IN 2.00", % 21.0

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 252.225-7008 AND 252.225-7009. THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 35 DATED 11/07/16.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2013 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 13-1996R BY PERFORMANCE REVIEW INSTITUTE. THIS CERTIFICATE 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.

TYLER SCHAPPELL
ADMINISTRATOR - QUALITY
CARPENTER TECHNOLOGY CORPORATION

Tyler A. Schappell

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 Aussagen dieses Zertifikats.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce document. Carpenter ne s'engage ni ne s'assume aucune responsabilité pour une certification vis-à-vis d'une tierce personne.

CERTIFIED TEST REPORT

Calstrip Steel Corporation

7140 Bandini Blvd. * Los Angeles, CA 90040-3388
(323)726-1345 * Fax (323)722-8269

CC20235F

Customer: ALCOA FASTENING SYSTEMS Address: P.O. BOX 1186 PITTSBURGH, PA 15230	Order Number: S108715 / W142379 Customer PO: 220858348 Shipped Date: 12/15/2015 Packlist ID: 193349
Part ID: 084422-CS Description: CR1050 SPH ANN .050 X 1.125 X COIL Drawing #: 084422-CS Rev #: 02/29/08	Material Spec: AMS-5085H, ASTM A827-14, MS 100, REV.7 DFAR COMPLIANT

HeatID: AMRB06201

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Cu	Mo	Resl
0.5200	0.6500	0.0150	0.0010	0.2000	0.0100	0.0200	0.0200		
W	V	Sn	Ti	Al	Ca	Zr	Co	N	B
	0.0030	0.0020	0.0040	0.0390	0.0016			0.0060	0.0002

MECHANICAL AND PHYSICAL PROPERTIES

Yield	Tensile	Elong %	Hardness	Bend Test
50,350	71,170	28.0	HRB 72	OK
Grain Size	Olsen Test	Spher%	Decarb	Reduct %
8		100	0	

Skid Numbers	# of Coils	Weight
W142379-1	9	2,236
W142379-2	9	2,224
	18	4,460

Comment:

8528 12/18/15

All work on this order has been performed in accordance with the Company's Quality Assurance Manual.

Mike Reindl

MIKE REINDL

Quality Services

Form #:

Print Date: 12/15/2015

Page: 1

SHIPPER#: 9948200411

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15 ROEMER BOULEVARD
FARRELL, PA 16121
PHONE: 724-883-6484

CERTIFICATE OF TEST FOR COIL 7531650 HEAT# AMTRB06201

ORDER SPECIFICATIONS

LD TO CALSTRIP STEEL CORPORATION
7140 BANDING BLVD.
LOS ANGELES, CA 90040

SHIP TO: CALSTRIP STEEL CORPORATION
C/O PRECISION STRIP, INC.
316 PARK AVENUE
TUPPER CITY, OH 45371

CUSTOMER NO: 66055W-2
 RESULTS FOR CASE: 781008
 PRODUCT TYPE: CR
 PRESENT CANTINITY: 4A
 ORDERED GRADE: SED
 ORDERED GRADE: JORN NOM
 GRADE TOL: +.0075-0.010
 ORDERED MEAS: 6.6250 INH
 MEAS TOL: +.0075-0.0050

ITEM: 50243223
BUSINESS OFFICE
CUSTOMER SERVICE
CUSTOMER PART OF CHORD-ASSOCIATION
CARTS: 12
CUSTOMER NAME:

#	COIL #	SIZE	WGHT	HARDNESS	YIELD	TENSILE	ELONGATION	GRAIN	SURFACE(AA Bot)	SURFACE(AA Top)
563-02	753850	.0500 X 48.0000	40500	75HB	50,350	71,170	28.0		24	35

LEATH ALPINE 2014

C; 53-MW 65-P; 016-S; 001-SI; 200-AL; 039-CL; 02-NR; 01-CR; 02-MO; *-SW; 002-TI; 004-V; 003-ME;
002-N; 005-B; 002-QA; 0016-CE; *-ZR; AS; SB; *

Manufactured in the United States of America - "BUY AMERICAN" COMPLIANT.

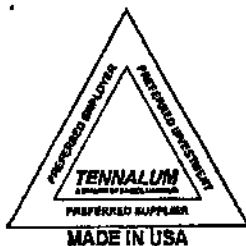
merits with a reported value of "... were understated, and thus are less than 501%." *Wack Phenylmercapton Corp.* certifies that the material tested herein has been tested in accordance with the methods prescribed in the governing specifications. All testing has been performed using the current revision of the testing specifications.

D. F. Siddons
Dale F Siddons
Supervisor - Metallurgical Lab

KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum
309 Industrial Drive
Jackson, TN 38301
731-423-2811



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

EL22942

CUSTOMER PO NUMBER: 43-143028-1		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 722253	LINE ITEM: 1	SHIP DATE: 03/13/2018	ALLOY: 7075	TEMPER: T851	
WEIGHT SHIPPED: 1172 lbs.	QUANTITY: 217 pcs.	BL NUMBER: 42113	DIAM/DIAF/THKNS: 0.6875 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO: Braico Metals 15090 Northam Street La Mirada, CA 90638 USA			SOLD TO: Braico Metals 15090 Northam Street La Mirada, CA 90638 USA		

Test Code: 1000 AC

Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10066815	81.8	74.4	19.5
	81.4	73.5	19.5

Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.07	0.24	1.4	0.02	2.6	0.19	5.8	0.03			10066815
Max	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	
Min			1.2		2.1	0.18	5.1				

Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4123J, AMS-QQ-A-225/9A AMS 4122L

ATA CERTIFIES THAT THIS IS A TRUE COPY
OF THE ORIGINAL MILL TEST REPORTS

MAR 22 2018

ATA
48

CERTIFICATION

BY: _____

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

John Rennekamp

Plant Serial: 250841

Kaiser Order Number: 722253

Line Item: 1

Page 1 of 2

3/29/18 **K62R**

SHIPPER#: 9948200411

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S&B IS AEROTECH ALLOYS

PC

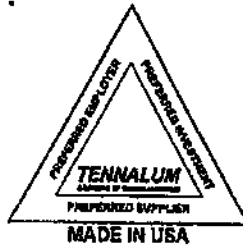
Part

Order No: 162531 TR

John Rennekamp

KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum
309 Industrial Drive
Jackson, TN 38301
731-423-2811



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Miscellaneous Notes

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of (cold finished) T6 temper, AMS 4122L and QQ-A-225/9E (CANCELLED). This material is RoHS 2 - 2011/65/EU compliant.

ATA CERTIFIES THAT THIS IS A TRUE COPY
OF THE ORIGINAL MILL TEST REPORTS

MAR 22 2018

ATA
BY _____ QC _____ 18

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

John Rennekamp

Plant Serial: 250841

Kaiser Order Number: 722253

Line Item: 1

Page 2 of 2

SHIPPER#: 9948200411

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SON IN AEROTEC ALLOYS
PO:
Part
Order No.: 18251
TR:

John Rennekamp



Certificate of Conformance

Aerotech Alloys
43169 Via Dos Picos, Temecula, CA 92590
951-694-1917 951-639-0146 [Fax]

DATE: MARCH 29, 2018

#1875

TO ARCONIC FASTENING SYSTEMS & RINGS
ATTN: NANCY KUFTA
800 S. STATE COLLEGE BOULEVARD
FULLERTON, CA 92831

SALESPERSON

PURCHASE ORDER

SALES ORDER

DATE SHIPPED

Cloe Salvesvold

221002559-4

3234

March 29, 2018

LINE

DESCRIPTION

QUANTITY
ORDERED

QUANTITY
SHIPPED

1

7075-T6 11/16" RD x 144.000" AMS-QQ-A-225/9A
GPV_548642
BOL No: 1875
Heat/Lot#: 10066815
Mill: KAISER
Country of Origin: USA

1,521 LBS/
279 PCS.

518 LBS/
95 PCS

Material Supplied is Certified as Mercury Free.

Certified By: Julie Wulf
Julie Wulf/Branch Manager

1 Bundle Supplied 95 pieces.
MATERIAL MEETS THE REQUIREMENTS OF MS410

TOTAL

518 LBS/
95 PCS

Aerotech Alloys Certifies that the material detailed above has been inspected and conforms to the specifications detailed in our quality certificate and to purchase order requirements. Aerotech Alloys is an AS9100 ISO 9001 approved company.

Julie Wulf/Branch Manager: Julie Wulf

ATA
18 SA

QF7.5.2-02 Rev C

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PMR

PRECISION MFG. & RUBBER CO., INC.

Date 9/28/2018

Conformance Certificate for Material Shipped

The PMR - Precision Mfg. & Rubber Co. hereby certifies that all materials used in the manufacture of parts called for on purchase order no. 221042531
Arconic Fastening Systems & Rings

received from _____ conform to the material specifications indicated in drawings or specifications as called for on the said purchase order. Test reports are on file with us or with our suppliers for examination and indicate conformance with applicable specification requirements.

The PMR - Precision Mfg. & Rubber Co. also certifies that the parts listed below shipper no. 278364 are manufactured in accordance with the material specifications called for on said purchase order that are current on the date on which the order was accepted.

<u>PART NO</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>CURE DATE</u>	<u>SHELF LIFE</u>
F39325-5RTS	Work Order No.: 6518447-000 Print No.: F39325-5RTS, REV. H Rubber: MIL-PRF-6855-60-BLACK, REV F Cert #: 1152991 Type: Washer # of Pens: 2	11,328	3Q 2018 (9/18)	3Q 2033

This Supplier has been delegated Arconic Fastening Systems and Rings inspection authority for part numbers manufactured under contract with AFSR	QA Acceptance Stamp 
PRECISION MFG & RUBBER CO	DATE 9/28/18

By: _____

George Surh