



ALCOA

Huck International dba
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
3724 E. Columbia Street
Tucson, AZ 85714
C.S. (800) 234-4825

PACKING LIST

PACKING SLIP: 5128725

SALES ORDER NO.	AL5697	RVSN	0	DATE SHIPPED	10/30/14	PAGE	1
CUSTOMER ORDER NO.	0ZWT65						
BILL OF LADING NO.	0361128942	DATE ORDERED	08/25/14				
SHIP VIA	UPS PP	F.O.B.	1	PPD			
SA							
C097							
TERMS							
PER AGREEMENT							

B B/E AEROSPACE, INC.
B/E AEROSPACE CONSUM. MGMT.
P.O. BOX 025263
MIAMI, FLORIDA 33102
S B/E AEROSPACE CONSUMABLES MGMT
H I P
9835 NW 14TH ST
MIAMI, FL 33172

BILL TO CUSTOMER 999512

999512

I.D. #: 5128725

PLANT CODE

TUC

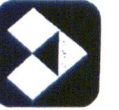
ITEM	PRODUCT NUMBER	DESCRIPTION	WORK ORDER # / QUANTITY	CURR QTY THIS ORDER	QTY SHIPPED	NO. OF PACKAGES	SHIPPING WEIGHT
1	NAS1919C05S03	MI BLIND RIVET - UNIMATIC - ORIGINAL DATE: 11/21/14 CUST. PART: NAS1919C05S03 HTS NO: 8308.20.3000 SCHEDULE B NO: 8308.20.0000 ECCN: COUNTRY OF ORIGIN: UNITED STATES THE EXPORT CLASSIFICATION APPEARS ABOVE. YOU ARE RESPONSIBLE FOR ALL RELATED EXPORT LICENSE REQUIREMENTS. AFS COMPLIES WITH DFARS 252.225-7009 REQUIREMENT SALES ORDER SPECIAL INSTRUCTIONS: CHEMICAL AND PHYSICAL TEST REPORT REQUIRED WITH SHIPMENT QAP 33.0 CLAUSES; A, A.1, B, C, E, H, P, U, AND V APPLIES. CUSTOMER WILL ACCEPT 10% SHIPPING VARIANCE DO NOT INSURE OR DECLARE A VALUE FOR THIS SHIPMENT REV. 8 PARTIAL SHIPMENTS ACCEPTED. BUYER: RODRIGO RODRIGUEZ SHIP 1-150 LBS FEDX GRD COLL. ACCT# 0331-0149-0. OVER 150 LBS, SHIP FX FRT ECONOMY ACCT# 018757. *ALL MATERIAL RETURNED WITHOUT AN RMA # WILL BE REFUSED AND SENT BACK AT YOUR COST. PLEASE CALL CUSTOMER SERVICE FOR AN AUTHORIZATION NUMBER.	306090 / 15581	15000 EA	15581 EA	4	28

CERTIFICATION

We hereby certify that the parts furnished comply with the applicable drawings and/or specifications.
Test reports and materials certifications are on file subject to examination.

Ken Hurt, Quality Manager

Ken Hurt



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PACKING LIST

PACKING SLIP: 5128725

SALES ORDER NO.	RVSN	DATE SHIPPED	PAGE
A15697	0	10/30/14	2
CUSTOMER ORDER NO.			
0ZWT65			
BILL OF LADING NO.	DATE ORDERED		
0361128942	08/25/14		
SHIP VIA	F.O.B.	PPD	
UPS PP	1		
SA			
C097			
TERMS			
PER AGREEMENT			

B B/E AEROSPACE, INC.
B/E AEROSPACE CONSUM. MGMT.
P.O. BOX 025263
MIAMI, FLORIDA 33102
S B/E AEROSPACE CONSUMABLES MGMT.
P 9835 NW 14TH ST
T MIAMI, FL 33172

BILL TO CUSTOMER 999512

999512

PLANT CODE

I.D. #: 5128725

: TUC

ITEM	PRODUCT NUMBER	DESCRIPTION	WORK ORDER # / QUANTITY	CURR QTY THIS ORDER	QTY SHIPPED	NO OF PACKAGES	SHIPPING WEIGHT
FREIGHT TERMS: FOB FACTORY, FRT COL							
***** **TOTAL QUANTITY: 15581** *****							
ALL MATERIAL RETURNED WITHOUT AN RMA # WILL BE REFUSED AND SENT BACK AT YOUR COST. PLEASE CALL CUSTOMER SERVICE FOR AN AUTHORIZATION NUMBER.							

CERTIFICATION

We hereby certify that the parts furnished comply with the applicable drawings and/or specifications.
Test reports and materials certifications are on file subject to examination.

Ken Hurt, Quality Manager

Ken Hurt



ALCOA
TUCSON DIVISION

CERTIFIED TEST REPORT

CTR # 101463620-11
Huck International, Inc.
3724 E. Columbia Rd.
Tucson, AZ 85714-3434
(520) 519-7400
FAX: (520) 519-7575

CUSTOMER B/E AEROSPACE CONSUMABLES MGMT		P.O. NUMBER OZWT65	S.O. NUMBER A15697	SHIP DATE 10/30/2014
PART NUMBER NAS1919C05S03	REV. 8	PROCUREMENT SPEC. NAS1900	SHIPPER NO.	QUAN. THIS SHIPMENT 15,581
			W.O. (LOT NUMBER) 306090	ORIG. TOTAL QUAN. 15,702

MECHANICAL TEST RESULTS

PIN RETENTION (lbs)		SINGLE SHEAR (lbs)	TENSILE (lbs)
MIN	MAX	MAX	MAX
1 884	1 875	1 1,700	1 1,414
2 928	2 988	2 1,700	2 1,438
3 920	3 985	3 1,700	3 1,336
4 979	4 929	4 1,700	4 1,517
		5 1,700	5 1,403
		6 1,700	6 1,391
		7 1,700	7 1,408
		8 1,700	8 1,475
Min.: 320		Min.: 1,670	Min 1,050

CHEMICAL COMPOSITION OF MATERIAL BASED ON MILL REPORTS

COMPONENT/ W.O. LOT / MILL	HEAT/ALLOY / DATE OF MFG	PRODUCER/ MATERIAL SPECS	PERCENT BY WEIGHT, OR ppm WHEN NOTED									
SLEEVE	SSB-5335	BROWN-PACIFIC	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Ti
306090S	A-286	AMS 5737, 5731	.03	.22	.017	<.001	.05	24.54	14.06	1.13	.09	2.21
1813FN	9/29/14	ORIGIN:USA	V	Al	B	Co	Fe					
			.15	.23	.008	.15	ND					
PIN	SSB-5610	BROWN-PACIFIC	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Ti
306090P	A-286	AMS 5737, 5731	.03	.57	.017	<.001	.06	24.59	14.40	1.07	.16	2.11
18C4A49	10/3/14	ORIGIN:USA	V	Al	B	Co	Fe					
			.22	.25	.006	.06	ND					
COLLAR	LC14-212	RADCLIFF	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Ti
LC14-212	A-286	AMS 5737, 5731	.03	1.49	.02	.001	.44	25.36	15.19	1.23	ND	2.17
417595	9/10/14	ORIGIN:USA	V	Al	B	Co	Fe					
			.27	.32	.0038	ND	ND					

OTHER TEST DATA AND COMMENTS

QA Lab #:

SLV, PIN, COLLAR - PASSIVATE PER AMS 2700, METHOD 1, CLASS 4

INSTALLATION INSPECTION ACCEPTABLE

ALL COMPONENTS/ RAW MATERIAL ALLOY HAS BEEN VERIFIED AFTER 01/01/01

*THIS ORDER COMPLIES TO DFARS 252.225.7002 & 7009-7014 ALTERNATE I. *ONLY SPECIALTY ALLOYS THAT ARE CONTAINED IN THIS ASSEMBLY APPLY TO DFARS REQUIREMENT.

Part examination, mechanical and metallurgical tests were conducted in accordance with applicable drawing and specifications. Objective evidence of compliance is on file and available for customer review. The test report shall not be reproduced except in full, without the written approval of the laboratory. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

Matthew Brick

By

Authorized QA Representative

By

Carlos Grijalva

Authorized Shipping Representative

10/13/2014

Date

10/30/2014

Date



BROWN-PACIFIC, INCORPORATED
13639 BORA DR. / SANTA FE SPRINGS / CALIFORNIA 90670
(562) 921-3471 • (562) 921-7012 FAX

MATERIAL TEST REPORT

SSB-5335

SHIP TO SOLD TO	SFS	SHIP VIA BEST TRNSPT	JOB NO.	INVOICE NO. 0-79341
	ALCOA FASTENING - TUCSON 3724 E. COLUMBIA ST. TUCSON, AZ 85714		ORDER DATE 08/19/13	THIS MATERIAL WAS MANUFACTURED AND TESTED IN CONFORMANCE WITH THE NOTED SPECIFICATIONS. THE INFORMATION PRESENTED HEREIN IS CORRECT AS CONTAINED IN THE COMPANY RECORDS. FACILITY IS MERCURY & RADIOACTIVE FREE. BY: <i>AM</i> LOPEZ, LAB SUP
			CUST. P.O. NO. 220638958	
			DUE DATE 11/04/13	
ALCOA FASTENING SYSTEMS PO BOX 1186 PITTSBURGH, PA 1523C		4 coils - 719#		11/6/2013 ALB
PRODUCT ORDERED			QTY. ORDERED	DFAR 252.225-7014 ALT. 1 COMPLIANT
0.328 DIA TYPE A-286 CONVERTED TO 0.154/0.156 DIA SEAMSAFE COPPER COATED COIL			500	KNOWINGLY OR WILLFULLY RECORDING FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW, TITLE 18, CHAPTER 47.

SPECIFICATIONS

T762 REV M CL 3(W/EXCEPTION LETTER DATED 2/28/11) CAP OF AMS 5731
5737P

GRADE A-286	MILL NO. 18	HEAT NO. 13FN
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CHEMICAL ANALYSIS

C: .03
 MN: .22
 P: .017
 S: <.001
 SI: .05
 NI: 24.54
 CR: 14.06
 MO: 1.13
 CO: .15
 V: .15
 CA:
 MG:
 ZR<.01
 AL: .23
 TI: 2.21
 B: .008
 CB:
 TA:
 CB+TA:
 CU: .09
 SE:
 N:
 FE:
 PB: <1PPM
 BI: <.1PPM

ASTM GRAIN SIZE: 4/5

ALLVAC, USA

MACRO:

MICRO:

OTHER:

Raw Material Verified

Stamp **Q17** Date *11/10/13*

SSB-5335

Accepted

QF 384, Rev A

MECHANICAL PROPERTIES AND CAPABILITY

AS SHIPPED PROPERTIES	TENSILE, KSI 88.9	YIELD, KSI 30.6	% ELON
	% RA	HARDNESS	SHEAR, KSI
ETT °F	TENSILE, KSI	YIELD, KSI	% ELON
	% RA		% ELON
STRESS RUPTURE	TEMP °F 1200F	STRESS, KSI 65	HOURS 48.0
	TEMP °F 1200F	STRESS, KSI 70	HOURS 48.2
			% ELON 24.1
H.T. PROCEDURE 1650F 2HRS W/Q, 1325F 16HRS A/C			
	TENSILE, KSI 164.5	YIELD, KSI 108.7	% ELON 26.6
	% R.A. 50.7	HARDNESS RC 32	SHEAR, KSI
H.T. PROCEDURE 1800F 1HR W/Q, 1325F 16HRS A/C			
	TENSILE, KSI 164.7	YIELD, KSI 108.8	% ELON 26.6
	% R.A. 52.1	HARDNESS RC 32	SHEAR, KSI
H.T. PROCEDURE			
	TENSILE, KSI	YIELD, KSI	% ELON
	% R.A.	HARDNESS	SHEAR, KSI



BROWN-PACIFIC, INCORPORATED
13639 BORA DR. / SANTA FE SPRINGS / CALIFORNIA 90670
(562) 921-3471 • (562) 921-7012 FAX

MATERIAL TEST REPORT

SSB-5610

FOB: SFS	SHIP VIA: BEST TRNSPT	JOB NO.	INVOICE NO. -0-80779
SHIP TO ALCOA FASTENING - TUCSON 3724 E. COLUMBIA ST. TUCSON, AZ 85714	ORDER DATE: 07/31/14	THIS MATERIAL WAS MANUFACTURED AND TESTED IN CONFORMANCE WITH THE NOTED SPECIFICATIONS. THE INFORMATION PRESENTED HEREIN IS CORRECT AS CONTAINED IN THE COMPANY RECORDS. FACILITY IS MERCURY & RADIOACTIVE FREE. BY: <u>G. MORENO, LAL</u> 8/30/2014 GM	
	CUST. P.O. NO. 220710081		
	DUE DATE: 08/29/14		
ALCOA FASTENING SYSTEMS PO BOX 1186 PITTSBURGH, PA 1523C	4 COILS 663 #		
PRODUCT ORDERED	QTY. ORDERED: 600	DFAR 252.225-7014 ALT. 1 AND 252.225-7009 COMPLIANT	
0.406 DIA TYPE A-286 CONVERTED TO 0.1285/0.1295 DIA SEAMSAFE MIRAFLEX COATED COIL		KNOWINGLY OR WILLFULLY RECORDING FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW, TITLE 18, CHAPTER 47.	

SPECIFICATIONS
T762 REV M CL 4(W/EXCEPTION LETTER DATED 2/28/11) CAP OF AMS 5731L
5737P

GRADE: A-286
MILL NO.: 18
HEAT NO.: C4A49

CHEMICAL ANALYSIS

✓ C: 0.03
✓ MN: 0.57
✓ P: 0.017
✓ S: <0.001
✓ SI: 0.06
✓ NI: 24.59
✓ CR: 14.40
✓ MO: 1.07
✓ CO: 0.06
✓ V: 0.22
CA:
MG:
ZR<.01

✓ AL: 0.25
✓ TI: 2.11
✓ B: 0.006
CB:
TA:
CB+TA:
✓ CU: 0.16
SE:
N:
FE:
PB: <1PPM
BI: <0.1PPM

ASTM GRAIN SIZE: 9/10

ALLVAC,USA

MACRO:

MICRO:

OTHER:

Raw Material Verified

Stamp Q17 Date 9/25/14

SSB-5610

Accepted

QF 384, Rev A

MECHANICAL PROPERTIES AND CAPABILITY

AS SHIPPED PROPERTIES	TENSILE, KSI	168.4	YIELD, KSI		% ELON			
	% R.A.		HARDNESS		SHEAR, KSI			
ETT °F	TENSILE, KSI		YIELD, KSI		% ELON	% R.A.		
STRESS RUPTURE	TEMP °F	1200F	STRESS, KSI	65	HOURS	48.2	% ELON	35.9
	TEMP °F	1200F	STRESS, KSI	70	HOURS	48.0	% ELON	32.0
H.T. PROCEDURE 1650F 2HRS W/Q, 1325F 16HRS A/C								
	TENSILE, KSI	163.0	YIELD, KSI		109.4	% ELON		25.0
	% R.A.	51.2	HARDNESS		RC 33	SHEAR, KSI		
H.T. PROCEDURE 1800F 1HR W/Q, 1325F 16HRS A/C								
	TENSILE, KSI	163.2	YIELD, KSI		107.0	% ELON		25.0
	% R.A.	51.3	HARDNESS		RC 33	SHEAR, KSI		
H.T. PROCEDURE 1250F 3HRS A/C								
	TENSILE, KSI	226.6	YIELD, KSI			% ELON		
	% R.A.		HARDNESS			SHEAR, KSI		

Certificate of Conformance

Sold To: ATLANTIC PREC SPG
125 RONZO RD
BRISTOL, CT 06010

Date Shipped: 07/17/2014
PO #: 43212 REL# 3
Radcliff No.: 131846
Heat No.: 417595
Qty. Shipped: 299 LBS-14-BLACK MIG
SPOOLS

Item Description	
.017 X .0525	A286 Stainless Steel
AMS 5737 REV P CHEM ONLY	
Melting Country: United States	Producing Country: United States
Notes: PART# TEU140-0525-0170	
Raw Material Verified	
Stamp Q17	Date 9/10/14
QC 218 Rechecked	
QF 884, Rev A	

Chemical Analysis			
✓ Al: 0.32%	✓ B: 0.0038%	✓ C: 0.03%	✓ Cr: 15.19%
✓ Mn: 1.49%	✓ Mo: 1.23%	✓ Ni: 25.36%	✓ P: 0.02%
✓ S: 0.001%	✓ Si: 0.44%	✓ Ti: 2.17%	✓ V: 0.27%

Mechanical Properties
Tensile: 129 KSI

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.

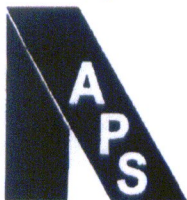
Material as shipped, is free from mercury contamination.

Material is DFAR compliant

This Supplier has been delegated AISI Inspection Authority for designated part numbers manufactured under contract with Alcoa Fastening systems.	QA Acceptance Stamp Accepted L.H.
	Date: 9/9/14
Supplier Code: 3070624	

Lisa Platek

Lisa Platek
Certification Clerk



ATLANTIC PRECISION SPRING, INC.

ISO 9001 CERTIFIED

Tel: 860-583-1864 • Fax: 860-583-1070
Toll Free: 888-277-9713
Email: sales@aps-ct.com
www.aps-ct.com

125 Ronzo Road
Bristol, CT 06010



DATE: 9/9/2014

CUSTOMER	ALCOA FASTENING SYSTEMS
PO#:	220724465
PART NUMBER:	SMLS-LCR-EU05SXQ
INDEX #	3544
DESCRIPTION:	COLLAR
REVISION:	U
JOB #	23321-Q7 LOT A
MATERIAL HEAT	417595
QUANTITY:	494,909 PCS

It is hereby certified that all articles, herewith furnished, in the quantities as called for in the above Purchase Order are in conformance with the requirements, specifications, and meet specification requirements, and that physical and/or chemical test reports of these materials are on file with us or our suppliers for your examination.

Brian J. Fries, Vice President

This Supplier has been designated by AFS Inspection Authority for designated part numbers manufactured under contract with Alcoa Fastening Systems.

Supplier Code: 0000024

QA Acceptance Stamp

Accepted
L.H.

Date

9/9/14



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXaerospace.com

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

Material Certification

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

FIRM: AJ WALTER AVIATION LTD

PURCHASE ORDER#: CPE1887

QUANTITY U/M PART-NUMBER	CUST REF#	LOT-NUMBER	Eff Date	EXP DATE
1000 EA NAS1919C05S03		306090		



Jason Lewis
Senior Director, Global Quality

12/28/15

Inv # 12/28/15