



Pack Slip

Pack Slip #



Customer PO #

**Wesco Aircraft Hardware Corp.**27727 Avenue Scott; Valencia, CA 91355
PH: 661/775-7200 FAX: /

Sales Order #



Pack Slip #	Date	Page #
10829146	11/4/2016 10:38:12	1 of 1
Customer PO #		
CPE4838		
Sales Order #	Ordered By	
10594380 SO		
Payment Terms		
060 Net 60		
Salesperson	Related Order #	
Peter Woods		
TOTE ID:		

Bill To: 103913 (AT003301)A.J. Walter Aviation, Ltd.
The Headquarters
Maydwell Ave, Slinfold
West Sussex
RH13 0AS
United Kingdom**Ship To:** 617872 ()A.J. Walter Aviation, Ltd.
Logistics Centre
The Business Park, Maydwell Avenue
West Sussex
Slinfold
RH13 0AS
United Kingdom**Ship Inst:** COL**Carrier:** DHL Worldwide Priority Express(Int'l)

Item #	Quantities			Part Number / Description	Certifications	Promise Date
	Shipped	Backorder	U/M			

1	20	0	EA	MS21914-10	Cert-Mfr's C of C	11/4/2016
---	----	---	----	------------	-------------------	-----------

PRESS CAPSEAL,FLARELESS,CAD ST

Lot # **Manufacturer's Lot #:**

31910759 525219

Manufacturer Name

Precision Aircraft Machining Co., I

Lot Qty

20

**Export Classification.** EAR ECCN 9A991d**Country Of Origin:** US**US Harmonized Schedule Number:** 7307.92.30.30 STEEL FITTING**Comments:**

*****Orders must be INVOICED PRIOR TO SHIPMENT*****

US FUNDS

Released in accordance with AS9120/ISO 9001:2008
requirements**FREIGHT ACCOUNT NUMBER:** 954785495

Export Statement

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Certificate of Conformance:

Total Weight **Total # Boxes**

Wesco Aircraft certifies that all products are of new manufacture. Documentation from the manufacturer certifies that the product meets all applicable Government, Customer and/or Manufacturer's specifications and requirements. Wesco certifies that the whole of the supplies detailed hereon have been received under cover of the Release Certificate quoted above and are in the same condition when received. This documentation is maintained on file permanently and available upon request.

Signed:Benito Carlos Dominguez
Executive Director Global Quality Systems

We hereby certify that no returns will be accepted without WESCO Returned Material Authorization number. Only lot traceable material will be accepted for return.

Wesco's standard terms and conditions can be found at https://www.wescoair.com/eng/company/Downloads/Wesco_Aircraft_Terms_and_Conditions_of_Sale.pdf and, except as explicitly agreed by Wesco and the buyer in a writing signed by both parties, shall be applicable to, and deemed incorporated into this order. These terms and conditions shall govern the order notwithstanding any term and conditions that were included in the order by the buyer. Acceptance of the order shall be deemed an acceptance of these terms and conditions and, except as expressly agreed by Wesco and the buyer in a writing signed by both parties, these terms and conditions shall supersede, nullify and void any other terms, conditions, representations, understandings, in oral or written form.

PACKING LIST

67598

Special Instructions

☐ Cert Enclosed
☐ Partial Ship
☒ Complete Ship

Goods Received in Good Condition

By: _____

Date: _____

SOLD TO:



WESCO AIRCRAFT
ATTN: ACCOUNTS PAYABLE
P.O. BOX 803010
SANTA CLARITA CA 91380-3010
661-775-7274661-702-1666

SHIP TO:

WESCO AIRCRAFT
27727 AVENUE SCOTT
VALENCIA CA 91355
Phone: 661-775-7274 Fax: 661-702-1666

ATTN: Manuel Galvez

Sales Order	Ship Num	Cust No	Order Date	Tax	Promised	Sales Rep	Customer P.O. Number	Mark Shipment
0045619	0000	C0589	7/18/2016	E	11/1/2016	DON PISANO	1864560	
F.O.B. Point	Ship Date	Shipped Via	Cartons	Weight	Waybill Number	Ins		
COLLECT	11/2/2016	PAMCO-TRUCK	10.00	254.00		N		

Item	T	QUANTITY			Unit	Part Number/Revision	Description
		Order	B/O	Ship			
001	S	1,500		1,500	EA	MS21914-10	<p>THIS SHIPMENT IS IN FULL COMPLIANCE WITH DFARS CLAUSE 252.225-7009 PREFERENCE FOR DOMESTIC SPECIALTY METALS AND ITS ALTERNATE 1.</p> <p>PAMCO CERTIFIES THAT ALL PRODUCT PRODUCED DOES NOT CONTAIN AND HAS NOT COME IN DIRECT CONTACT WITH MERCURY.</p> <p>*COUNTRY OF ORIGIN: <u>USA</u></p> <p>CAP ASSEMBLY REV. M Cust Part MTRL 4130 REV. M</p> <p>Bin BLDG3</p> <p>REV. M Bin SR4-6</p> <p>REV. M</p> <p>LOT# <u>525219-525537</u> ITEM# <u>1</u></p> <p>ATTACHED ARE COPIES OF THE TEST REPORTS REPRESENTING EACH LOT OF RAW MATERIAL USED, IDENTIFIED WITH HEAT AND/OR</p>
						Qty 1387 Lot 525219 Serial No. Qty 113 Lot 525537 Serial No.	 

PACKING LIST

67598

Special Instructions

☐ Cert Enclosed ☐ Partial Ship ☒ Complete Ship

Goods Received in Good Condition

By: _____

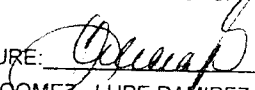
Date: _____

SOLD TO: WESCO AIRCRAFT
ATTN: ACCOUNTS PAYABLE
P.O. BOX 803010
SANTA CLARITA CA 91380-3010
661-775-7274/661-702-1666

SHIP TO: WESCO AIRCRAFT
27727 AVENUE SCOTT
VALENCIA CA 91355
Phone: 661-775-7274 Fax: 661-702-1666

ATTN: Manuel Galvez

Sales Order	Ship Num	Cust No	Order Date	Tax	Promised	Sales Rep	Customer P.O. Number	Mark Shipment
0045619	0000	C0589	7/18/2016	E	11/1/2016	DON PISANO	1864560	
F.O.B. Point	Ship Date	Shipped Via	Cartons	Weight	Waybill Number	Ins		
COLLECT	11/2/2016	PAMCO-TRUCK	10.00	254.00		N		

Item	T	QUANTITY			Unit	Part Number/Revision	Description
		Order	B/O	Ship			
							<p>LOT NUMBER AND REFERENCING THE ABOVE LISTED PURCHASE ORDER NUMBER. ALSO ATTACHED ARE CERTIFICATES OF CONFORMANCE FOR ALL PROCESSING REQUIRED IN THE MANUFACTURE OF THE PARTS.</p> <p>CERTIFICATION:</p> <p>THE ABOVE MATERIAL HAS BEEN MANUFACTURED, PROCESSED AND INSPECTED, BY APPROVED SOURCES , AS REQUIRED, AND IS IN CONFORMANCE WITH THE APPLICABLE PURCHASE ORDER, PRINTS AND SPECIFICATIONS.</p> <p>SIGNATURE: </p> <p>FELICIA GOMEZ LUPE RAMIREZ NICOLE MADRID INVOICE/CERTIFICATION CLERK DATE: 11-2-16</p> <p>ALL RETURNED PARTS MUST HAVE A RETURN AUTHORIZATION NUMBER (RMA). PAMCO WILL NOT ACCEPT RETURNS THAT DO NOT HAVE AN RMA NUMBER. PAMCO WILL NOT ACCEPT RETURNS AFTER 90 DAYS.</p>



PAMCO
10640 ELKWOOD ST.
SUN VALLEY, CA 91352

CERTIFICATION PACKAGE

FORM CP
REV.N/C
03/05

CUSTOMER:	WESCO AIRCRAFT
ORDER NUMBER:	1864560
PART NUMBER:	MS21914-10
LOT NUMBER:	525219

MATERIAL:	FRY STEEL/ 1" HEX 4130 F4
LOT NUMBER	51643/ 524808

OUTSIDE PROCESS:	ACTIVE/ MS21921-10
LOT NUMBER	52811/ 524808

OUTSIDE PROCESS:	FRY STEEL/ 13/16 RD 4130 F4
LOT NUMBER	52633/ 525293

COMPONENT:	ACTIVE/ MS21914-10
LOT NUMBER	53312/ 525293

COMPONENT:	WIREFORMS/ MS21914-10
LOT NUMBER	23890

COMPONENT:	
LOT NUMBER	

WAC
22

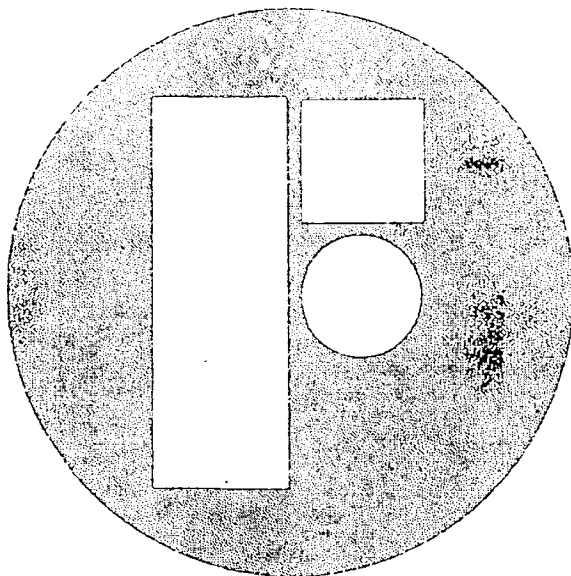
COMPONENT:	
LOT NUMBER:	

4037276

FRY STEEL COMPANY

4037276

13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562)-802-2721
REGISTERED ISO 9001



RECEIVED MAY 12 2016

PAMCO
A-2

Vendor: Fry STEEL
Our P.O. # 51643
P/N: 1" Hex 4130 Fry

Order Number: 4037276
Order Date: 05/11/16
Customer Name: PAMCO - PREC AIRCRAFT MACH
Customer P.O.: 51643

ATTENTION PURCHASING !!

WE ARE ACCEPTING QUOTES BY e-MAIL

fryquotes@frysteel.com

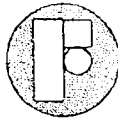
1 800 423-6651 {for U.S. & Canada}

Visit us on the Web at frysteel.com

Thank you for Choosing Fry Steel

WAC
22

Order No: 4037276
Time 10:13:12



FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

P00938
Cust. NO.: 51643 ✓
P.O. NO.:

CERTIFICATE OF COMPLIANCE

PAMCO - PREC AIRCRAFT MACH
10640 ELKWOOD ST
SUN VALLEY CA 91352-4631

05/11/16

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	CD 4130 HT MILS 6758 ✓ RED		
12	BARS 1"HEX 12'RL /	50820	8174544 /

RECEIVED MAY 12 2016

PAMCO
A-2

Vendor: FRY STEEL
Our P.O. # 51643
P/N: 1" Hex 4130 Fy

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION(I.E. MAG., SONIC,ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

**NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT**

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

-- TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE --

WAC
22

CHIP SANDOVAL - Q.C. MANAGER



155 CHATHAM STREET
PHONE: 330-438-5694

HAMILTON, ONTARIO CANADA L8P2N7
FAX: 330-438-5695

CERTIFICATE OF TESTS

REPUBLIC STEEL

5/6/2015 8:31:00 AM
PAGE 1 OF 2

PURCHASE ORD: 48014-3
PART NUMBER: S# 50820
ORDER NUMBER: 1588071 - 01
HEAT: 8174544

PURCHASE ORDER DATE: 4/21/2014
ACCOUNT NUMBER: 5323-1291-01
SCHEDULE: 0557-57
REVISION: 1

BOL #: HMLT016238

SHIPPED WEIGHT: 10,198 lbs

----- CHARGE ADDRESS ----- SHIP TO -----

FRY STEEL COMPANY
13325 MOLETTE ST
SANTA FE SPRINGS, CA 60970

FRY STEEL COMPANY
Chip Sandoval
C/O CMI
4201 W 36TH ST
CHICAGO, IL 60623

----- MATERIAL DESCRIPTION -----
COLD FINISHED STEEL BARS ALLOY ASTM A108-13 LEVEL 1 FG ASTM A331-95 FG AMS 2301K AMS S 6758A COND
F-4 REVISION DTD 09/03 EXC MARK MIL S 6758B COND - EXC MARK PLUS BHN AMS 6346B AMS 6370N FOR CHEM
ONLY EF-AISI-4130 FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY COLD DRAWN QUENCH & TEMP BEFORE CD/SRA
AFT CD

SIZE: HEX 1.0000 DIAM X 11FT 0.0000IN MIN/13FT 0.0000IN MAX
HEX 25.4000MM DIAM X 3352.8000MM MIN/3962.4000MM MAX

----- LADLE CHEMISTRY % -----
C MN P S SI CU NI CR
0.29 0.46 0.008 0.014 0.21 0.08 0.06 0.96
V MO SN AL CB N
0.003 0.18 0.005 0.021 0.000 0.0076

----- CALCULATED TESTS -----

REDUCTION RATIO 150.1 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER
ASTM A29.

----- SEMI - FINISHED RESULTS -----

GRAIN SIZE TEST ASTM A29/ASTM E112
PCE H10301 MCQUAID = 7.00000

JOMINY HARDNESS TEST SAE J406/ASTM A255
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
50 51 48 42 37 33 32 30 29 29 28 27 27 26 26 26 24 25 23 22 20 21 20 20

MACRO ETCH TEST ASTM E381/MIL STD 430
ETCHANT: HCL TEMPERATURE: 170

AVG S R C
1 1 1

MAGNETIC PARTICLE TEST AMS 2301 AMS2304

IND AVG IND AVG
FREQ FREQ SEV SEV
PCE 03 0 0 0 0

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

MAY 08 2015

----- FINISHED SIZE RESULTS -----

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558

ETCHANT - NITAL MAGNIFICATION = 100X

TOTAL
DEPTH
INCHES

B. COLETTO BY GEOFF BOAL
GEN. MGR. COLD FINISHED BAR PRODUCTS DIV.



BY Chip Sandoval
CHIP SANDOVAL - Q.C. MANAGER

RECEIVED MAY 12 2016

PANCO
A-2

Vendor: FRY Steel
Our P.O. # 51643
P/N: 1" HEX 4130 F4

8174544

1" HEX

Bill Coletto



155 CHATHAM STREET
PHONE: 330-438-5694

HAMILTON, ONTARIO CANADA L8P2B7
FAX: 330-438-5695

CERTIFICATE OF TESTS

REPUBLIC STEEL

5/6/2015 8:31:00 AM
PAGE 2 OF 2

PURCHASE ORD: 48014-3
PART NUMBER: S# 50820
ORDER NUMBER: 1588071 - 01
HEAT: 8174544

PURCHASE ORDER DATE: 4/21/2014
ACCOUNT NUMBER: 5323-1291-01
SCHEDULE: 0557-57
REVISION: 1

BOL #: HMLT016238

SHIPPED WEIGHT: 10,198 lbs

PCE 01 0.006

TENSILE TEST STANDARD FORMAT

	TENSILE	YIELD(0.2%)	RA	E
	PSI	PSI	%	%
PCE 01	132500	120000	57.0	17.9

FINISHED SIZE RESULTS (CONTINUED)

CAPABLE OF SEAM DEPTH 1.6% OF DIAMETER BUT NOT LESS THAN .005"

NOTES

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

MELTED IN THE U.S.A. AND MANUFACTURED IN THE U.S.A. OR CANADA.

SOURCE INFORMATION

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LACKAWANNA 13in, U.S.A
MELT METHOD: EF BLOOM RED. RATIO: 150.1

END OF DATA CC END OF DATA
FILE 1 COPY

B. COLETTO BY GEOFF BOAL
GEN. MGR. COLD FINISHED BAR PRODUCTS DIV.

Bill Coletto

RECEIVED MAY 12 2016

PANCO
A-2
Vendor: <i>FRY STEEL</i>
Our P.O. # <i>51643</i>
P/N: <i>1" HEX 4130 FH</i>

WAC
22



627226

9356 1/2 San Fernando Road, Unit B • Sun Valley, CA 91352

(818) 504-0677 • FAX (818) 504-1559

SOLD TO: PRECISION AIRCRAFT MACHINING CO. INC.
10640 ELKWOOD STREET
SUN VALLEY, CA 91352
(818) 768-5900

TERMS: net 30

DATE CERTIFIED: 09-07-2016	DATE RECEIVED: 09-07-2016	DATE TESTED: 09-07-2016	CUSTOMER P.O. 0052811-00	PACKAGING METHOD
QUANTITY 1563 150#	PART NO. MS21921-10	DESCRIPTION NUT FLARELESS CAD PLATE OIL DIP SURCHARGE 10% REV H WO# 524808 000 016000 GL: 535	UNIT	AMOUNT
RECEIVED SEP 12 2016			PAMCO A-2	
MATERIAL / HEAT TREAT / STATUS OF PART: 4130				TOTAL 1

PASSIVATE

Other Cad Plate Type II Class 2 AMS-QQ-P-416E/GOLD/OIL MIL-H-46170/MIL-PRF-608

MAGNETIC SPECIFICATIONS

Acceptance Criteria

Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected

Reason Rejected

FLUORESCENT PENETRANT SPECIFICATIONS

Acceptance Criteria

Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected

Reason Rejected

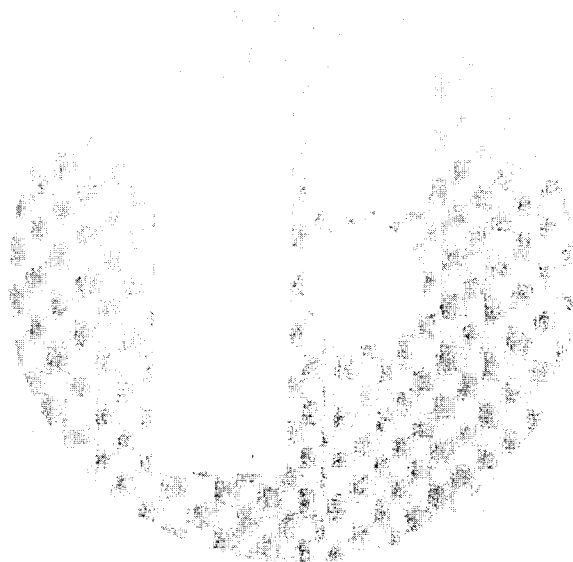
QC NDT Level 2: REYES HERNANDEZ

CERTIFICATION / TEST / REPORT

This test certification shall not be reproduced except in full. This certification shall not be used by the customer to claim product endorsement by any agency of the U.S. government. Active Magnetic Inspection certifies that the product shipped on the above certification were processed, inspection & tested in compliance with all applicable prints & specifications. All supporting documentation is on file at Active Magnetic Inspection.

FRY STEEL COMPANY

13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562)-802-2721
REGISTERED ISO 9001



RECEIVED AUG 15 2016



Vendor: FRY STEEL
Work Order # 525293
Our P.O. # 52633
P/N: 3/16 RD 430 14

Order Number: 4069026
Order Date: 08/10/16
Customer Name: PAMCO - PREC AIRCRAFT MACH
Customer P.O.: 0052633-00 FAX

ATTENTION PURCHASING !!**WE ARE ACCEPTING QUOTES BY e-MAIL*****fryquotes@frysteel.com*****1 800 423-6651 {for U.S. & Canada}**Visit us on the Web at frysteel.com***Thank you for Choosing Fry Steel***

Order No: 4069025
Time 17:00:10

FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

P00938
Cust. NO.: 0052633-00 FAX
P.O. NO.:

CERTIFICATE OF COMPLIANCE

PAMCO - PREC AIRCRAFT MACH
10640 ELKWOOD ST
SUN VALLEY CA 91352-4631

18/10/10

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	CD 4130 HT AMS S 6758 RED		
20	EARS 13/16"RD 12'RL REPUBLIC/ONE HEAT	50490	8291844
	P/N# MS21914-10		

RECEIVED AUG 15 2016

PAMCO
A-2

Vendor: FRY STEEL
Work Order # 525293
Our P.O. # 52633
P/N: 13/16 RD 4130 F4

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

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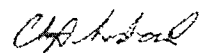
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WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

-- TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE --


CHIP SANDOVAL - Q.C. MANAGER

WAC
22



401 ROSE AVE S E
MASSILLON, OH 44646

FAX: 330-837-7017

CERTIFICATE OF TESTS

REPUBLIC STEEL

7/26/2016 1:29:00 PM

PAGE 1 OF 3

PURCHASE ORD: 48817-4
PART NUMBER: S# 50490
ORDER NUMBER: 1625385 - 01
HEAT: 8291844

PURCHASE ORDER DATE: 3/17/2016
ACCOUNT NUMBER: 5323-1291-01
SCHEDULE: 7896-59
REVISION: 1

BOL#: MASS043068

SHIPPED WEIGHT: 10,090 lbs

----- CHARGE ADDRESS ----- SHIP TO -----

FRY STEEL COMPANY
13325 MOLETTE ST
SANTA FE SPRINGS, CA 60970

FRY STEEL COMPANY
Chip Sandoval
C/O CMI
4201 W 36TH ST
CHICAGO, IL 60623

MATERIAL DESCRIPTION

COLD FINISHED STEEL BARS ALLOY ASTM A108-13 LEVEL 1 FG ASTM A331-95 FG AMS 2301K AMS 2304B
REVISION DTD 08-10 AMS 6346B MIL S 6758B COND F-4 EXC MARK AMS S 6758A COND F-4 REVISION DTD 09/03
EXC MARK AMS 6370N FOR CHEM ONLY EF-AISI-4130 FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY COLD DRAWN
QUENCH & TEMP BEFORE CD/SRA APT CD
SIZE: RDS .8125 DIAM X 11FT 0.0000IN MIN/13FT 0.0000IN MAX
RDS 20.6375MM DIAM X 3352.8000MM MIN/3962.4000MM MAX

LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NJ	CR
0.21	0.48	0.013	0.015	0.20	0.09	0.20	0.96
V	MO	SN	AL	CB	N		
0.006	0.17	0.007	0.024	0.001	0.0070		

CALCULATED TESTS

REDUCTION RATIO 250.9 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM A29.

SEMI - FINISHED RESULTS

GRAIN SIZE TEST ASTM A29/ASTM E112
PCE H10301 MCQUAID = 7.00000

JOMINY HARDNESS TEST SAE J406/ASTM A255

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
52 51 49 45 40 37 34 32 31 30 29 29 28 28 28 27 27 26 25 25 24 24 23 23

MACRO ETCH TEST ASTM E381/MIL STD 430

ETCHANT: HCL TEMPERATURE: 170

	S	R	C
AVG	1	1	1

MAGNETIC PARTICLE TEST AMS 2301 AMS2304

IND	AVG	IND	AVG
FREQ	FREQ	SEV	SEV

PCE 01 0 0 0 0

MAGNETIC PARTICLE TEST AMS 2301 AMS2304

IND	AVG	IND	AVG
FREQ	FREQ	SEV	SEV

PCE 03 0 0 0 0

FINISHED SIZE RESULTS

B. COLETTO BY GEOFF BOAL
GEN. MGR. COLD FINISHED BAR PRODUCTS DIV.

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

JUL 26 2016

BY Chip Sandoval
CHIP SANDOVAL - Q.Q. MANAGER

RECEIVED AUG 15 2016

PAMCO
A-2

Vendor: FRY Steel
Work Order # 525023
Our P.O. # 52355
P/N: B/C RD 400 P

WAC
22



401 ROSE AVE S E
MASSILLON, OH 44646

FAX: 330-837-7017

CERTIFICATE OF TESTS

REPUBLIC STEEL

7/26/2016 1:29:00 PM

PAGE 2 OF 3

PURCHASE ORD: 48817-4
PART NUMBER: S# 50490
ORDER NUMBER: 1625385 - 01
HEAT: 8291844

PURCHASE ORDER DATE: 3/17/2016
ACCOUNT NUMBER: 5323-1291-01
SCHEDULE: 7896-59
REVISION: 1

BOL#: MASS043068

SHIPPED WEIGHT: 10,090 lbs

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558
ETCHANT - NITAL MAGNIFICATION = 100X

TOTAL
DEPTH
INCHES
PCE 01 0.006

----- FINISHED SIZE RESULTS (CONTINUED) -----

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0558
ETCHANT - NITAL MAGNIFICATION = 100X

TOTAL
DEPTH
INCHES
PCE 01 0.006

TENSILE TEST STANDARD FORMAT

	TENSILE PROPORTIONAL RA PSI	YIELD(0.2%) E PSI	YIELD(0.01%) PSI	YIELD(0.02%) PSI	YIELD(0.5%EUL) PSI	LIMIT
- PSI %	%					
PCE 01	135300	123100	0	0	0	0
63.1	20.6					

CAPABLE OF SEAM DEPTH 1.6% OF DIAMETER BUT NOT LESS THAN .005"

NOTES

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

MELTED IN THE U.S.A. AND MANUFACTURED IN THE U.S.A. OR CANADA.

----- SOURCE INFORMATION -----

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LACKAWANNA 13in, U.S.A
MELT METHOD: EF BLOOM RED. RATIO: 250.9

B. COLETTI BY GEOFF BOAL
GEN. MGR. COLD FINISHED BAR PRODUCTS DIV.

Bill Calisto

RECEIVED AUG 15 2016

PAMCO
A-2

Vendor: *PRY STEEL*
Work Order # *525293*
Our P.O. # *52633*
P/N: *B/18 PD 4130 PR*

WAC
22



401 ROSE AVE S E
MASSILLON, OH 44646

FAX: 330-837-7017

CERTIFICATE OF TESTS

REPUBLIC STEEL

7/26/2016 1:29:00 PM

PAGE 3 OF 3

PURCHASE ORD: 48817-4
PART NUMBER: S# 50490
ORDER NUMBER: 1625385 - 01
HEAT: 8291844

PURCHASE ORDER DATE: 3/17/2016
ACCOUNT NUMBER: 5323-1291-01
SCHEDULE: 7895-59
REVISION: 1

BOL #: MASS043068

SHIPPED WEIGHT: 10,090 lbs

----- END OF DATA ----- CC ----- END OF DATA -----
FILE 1 COPY

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PANCO
A-2

Vendor: FRY STEEL
Work Order # 525793
Our P.O. # 52633
P/N: 13/16 RD 4.30 Fy

B. COLETTO BY GEOFF BOAL
GEN. MGR. COLD FINISHED BAR PRODUCTS DIV.

Bill Coletto

WAC
22



ACTIVE
MAGNETIC
INSPECTION, INC.

SOLD TO: PRECISION AIRCRAFT MA
10640 ELKWOOD STREET
SUN VALLEY , CA 91352
(818) 768-5900

DATE CERTIFIED:		DATE RECEIVED:		DATE TESTED:		CUSTOMER P.O.	PACKAGING METHOD
10-31-2016		10-28-2016		10-28-2016		0053312-00	
2446	MS21914-10 INSERT REV M CAD PLATE OIL DIP						
	WO# 525293 000 018000 GL: 535						
	RECEIVED OCT 31 2016					PAMCO A-2	
	Amended Cert. REF:629311 10-31-16						
MATERIAL / HEAT TREAT / STATUS OF PARTS							TOTAL
PASSIVATE							

Other Cad Plate Type II Class 2 AMS-QQ-P-416E/GOLD/OIL MIL-H-46170/MIL-PRF-608
MAGNETIC SPECIFICATIONS

Acceptance Criteria

Supervision of Trials													
Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected
Reason Rejected													

Reason Selected

FLUORESCENT PENETRANT SPECIFICATIONS

Acceptance Criteria

[illegible]

Reason Rejected

QC NDT Level 2: REYES HERNANDEZ

This test certification shall not be reproduced except in full. This certification shall not be used by the customer to claim product endorsement by any agency of the U.S. government. Active Magnetic Inspection certifies that the product shipped on the above certification were processed, inspection & tested in compliance with all applicable prints & specifications. All supporting documentation is on file at Active Magnetic Inspection.

CERTIFICATION / TEST / REPORT

WAC
22

Wireform Spring and Stamping Co., Inc.

11862 Burke Street

Santa Fe Springs, CA 90670

(562) 945-7504 ~ Telephone

(562) 945-5074 ~ Fax

Certificate of Conformance

Customer Name: PAMCO

Date: 05/07/09

P.O. Number: 23890

Invoice Number: 11150

Part Number: MS21914-10

Packing Slip: 11150

Part Description: Wire Form, Retaining

Quantity: 10,000 Pcs.

Seller Certifies That:

1. These materials and/or parts were produced in conformance with all contractually applicable government and/or buyer's specifications as referenced in, or furnished with, the above purchase order.
2. The materials and/or parts furnished under the above purchase order and on above packing slip were produced either from materials furnished by buyer for the production of such parts or from materials for which the seller has available for examination chemical and/or physical test reports or other evidence of conformance to applicable specifications.
3. All processes required in the production of these parts and/or materials are listed below and were performed in accordance with all contractually applicable government and/or buyer's specifications as referenced in the purchase order.

Material: .055 302 Stainless per ASTM-A-493

Heat Number: 4MW0

Process

Specification

Processing Facility

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PAMCO
A-2

Vendor: Wire Form

Our P.O. # 23890

P/N: MS21914-10 Wire

Wireform Spring and Stamping Co., Inc.

By

Debra Donley
Debra Donley





13055 Jurupa Avenue
Fontana, CA 92337-6982
951/360-8117
FAX: 951/360-8118

Material Test Report

To: WIREFORM SPRING &

Date Shipped: 04/27/09

Purchase Order #: 7555

SWS#: 191888

This is to certify that the material shipped on the above purchase order complies with the specifications noted thereon.

Net Units	Size & Form	Type	Heat #	Specifications
110 LBS	.0550/COIL	302	4MW0	ASTMA493 (CHEMS ONLY)

Chemical Analysis

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Ti	Co	Al	N
.0184	1.473	.0346	.0183	.3193	18.26	8.739	.4172	.4792	.0044	.1744	.0021	.0622

Mechanical Properties

Tensile	COND-	MELT SOURCE
102564	A	USA

I hereby certify that the above data is correct as contained in the records of GDW.

By: *Richard Macias*
Richard Macias
Shipping Supervisor

Date: 04/27/09

Title:

GDW certifies that the materials listed herein are represented to the customer as stated to GDW by the mill source and attested to by said mill's Test Report with respect to chemical analysis. Other properties stated herein are certified to be representative of tests performed by GDW with exception of those performed by the mill source in which case they are a restatement of the Test Report as supplied to us by the mill source.

WAC
22

RECEIVED MAY 1 2009

PANCO
A-2

Vendor: WIRE FORMS

Our P.O. # 23890

P/N: MS21914-10 WIRE

ORIGINAL INVOICE