

4037001

Tomás Sanchez

sapa: Sapa Industrial Extrusions
1550 KIRBY LANE
SPANISH FORK, UT
84660-1349

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

COPPER & BRASS SALES INC
ATTN: ACCOUNTS PAYABLE
P.O. BOX 5116
--
SOUTHFIELD, MI - 48086

Ship To Customer

COPPER & BRASS SALES INC
1550 N. Kirby Lane
--
SPANISH FORK, UT - 84660

Certified Inspection Report

Sales Order Number 1101001835	Line No. 1	Customer P/O 5400285286-01	Cert Number SAPA2343500	Page 1 of 3
			Cert Creation Date 08-DEC-15	Cert Print Date 08-DEC-15

Quantity Shipped 3592 LB	Date Shipped 08-DEC-15	Item Description Extruded Regular Rod 9.000 DIA 144 IN LN FIN M-MILL W/F 74.814 F 01 CS 9 6061/T6 Marking CONTINUOUS;	Specification ASTMB221 REV 14 AMS-QQ-A-2008 REV A ASMESB221 REV 09 UNS#A96061 REV
B/L 695500	Item No. G03371801		
Delivery Id 4734775	Item No. Rev --		
Customer Part No. ALRD00081			

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title

Justin Donald

Justin Donald
Quality Control Manager

08-DEC-15

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G12-PKG2539110	22242468	2	PCS	1802	1796
G12-PKG2594345	22315741	2	PCS	1802	1796

Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	--	0.70	0.15	0.40	--	0.15	0.80	1.20	0.04	0.35	--	0.25

From: TK Materials CA, Ltd.

Cust. TECHNOWORX INC

CstAr

Wgt.: 96 LB

Del.: 2404324377

CstOr 685

Date 01/22/2016



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Alloy	Ti		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max
6061	—	0.15	—	0.05	—	0.15

Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4036384	0.72	0.32	0.34	0.12	0.90	0.14	0.03	0.02	—	—
4036892	0.72	0.32	0.31	0.13	0.92	0.14	0.05	0.03	—	—
4037001	0.72	0.29	0.32	0.12	0.91	0.13	0.04	0.03	—	—

Mechanical Property - Test Limits

Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Tests			—		—		—	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6	22242468	1	54.3	54.8	50.1	50.1	10.7	10.7
Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Tests			—		—		—	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6	22315741	1	54.3	54.3	49.5	49.5	11.0	11.0

Cert Notes

Material manufactured to T6511 specifications also meets T6 requirements.
All elements are represented in the chemical analysis section. The remainder is Aluminum.

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Certified Inspection Report

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			08-DEC-15	08-DEC-15

All mill finish alloys produced at Sapa Industrial Extrusions comply with Directive 2011/65/EU (RoHS 2) with the exception of 6262 alloy.
In accordance with EN 10204, Test Report Type 2.2 and Certificate Type 3.1
Material produced in compliance to EN 10204 3.3
Melted in USA or Qualifying Countries (as defined in Defense Federal Acquisition Regulation Supplement (DFARS) Section 225-872-1
Manufactured in USA
Manufactured in the United States

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