

S13020803

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

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS CA LTD
 COPPER & BRASS SALES
 ACCOUNTS PAYABLE
 P.O. BOX 5116
 SOUTHFIELD, MI - 48086-5116

Ship To Customer

THYSSENKRUPP MATERIALS CA LTD
 COPPER & BRASS SALES CANADA
 9451 45 AVE NW
 --
 EDMONTON, AB -

Certified Inspection Report

Sales Order Number 1100576751		Line No. 2	Customer P/O 5400175077-2	Cert Number SAPA722607	Page 1 of 2
			Cert Creation Date 02-MAR-13	Cert Print Date 02-MAR-13	

Quantity Shipped	Date Shipped	Item Description	Specification
921 LB	02-MAR-13	ACC-U-LINE Extruded ACC-U-ROD 5.250 DIA +/-0.022	ASTMB221 REV 12A AMS-QQ-A-200/8 REV 1997 ASMESB221 REV 09 UNS#A96061 REV SAEJ454 REV Meets 6061-T6511H, 6061-T6511 REV
B/L	Item No.	SECT 515662 144.000 IN LN FIN M-MILL	
407013	G03305811	W/F 25.458 F 1 CS 5.2 6061/T6511H	
Delivery Id	Item No. Rev	Marking CONTINUOUS:	
4405149	--		
CustomerPart No. ALRD00244			

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

D. Wade Bishop

Wade Bishop
 Quality Control Manager

02-MAR-13

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G14-PKG1400592	21338355	3	PCS	928	921

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

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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
S13020307	0.74	0.44	0.27	0.11	0.89	0.13	0.09	0.03	--	--
S13020803	0.74	0.37	0.40	0.10	0.89	0.14	0.15	0.02	--	--
S13021101	0.73	0.43	0.30	0.10	0.84	0.13	0.07	0.03	--	--

Mechanical Property - Test Limits

Test Type		UTS - L		TYS - L		EL 4D-Long		
UOM		KSI		KSI		PCT		
# of Test		--		--		--		
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6S11H	21338355	1	54.1	54.1	49.6	49.6	14.5	14.5

Cert Notes

Material manufactured to T6S11 specifications also meets T6 requirements.
 All elements are represented in the chemical analysis section. The remainder is Aluminum.
 All alloys produced at Sapa Industrial Extrusions comply with 0.4% maximum lead per RoHS, 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 3.1
 Melted and Manufactured in the USA
 Made in USA