

Thyssen to Kevin W0#7402 CPA 8W1040-2 PCS

Steven Tanner



Hydro Extrusion USA, I.L.C.
1550 KIRBY LANE
SPANISH FORK, UT
84660-1349

Certified Test Report

Sales Order Number 1101395696	Line No. 6	Customer P/O 5400404573-R115 0060	Cert Number HYDRO02887372	Page 1 of 3
			Cert Creation Date 08-JUN-18	Cert Print Date 08-JUN-18

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 AVENUE
 EDMONTON, AB - T6E 6H9

Quantity Shipped 7092	UOM LB	Date Shipped 08-JUN-18	Item Description ACC-U-LINE Extruded ACC-U-LINE 8.000 DIA +/-0.030 SECT 368740 144.000 IN LN PIN M-MILL. W/F 59.112 F I CS 8 60617651111 Marking CONTINUOUS;	Specification ASTM B221 REV 14 AMS-QQ-A-200/8 REV A ASME SB221 REV 09 Mots 6061-7651111, 6061-76511 REV
Item No. 933373	Item No. CR3973584	Item No. Rev -		
Delivery Id 5008474	Customer Part No. ALR1000012			

Applicable Specifications, Revisions and Exemptions
 Melted in the USA or qualifying countries
COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Hydro Extrusion USA, I.L.C. hereby certifies that the metal shipped under this report has been tested in accordance with the identified ASTM and/or ASME specifications and the results of the chemical analysis and mechanical properties tests are within the acceptable ranges of these specifications. Any product warranty is governed by the Extrusion North America Standard Terms and Conditions of Sale posted at www.hydroextrusions.com/termsandconditions.

Signature And Title

Steven Tanner
Quality Manager

08-JUN-18

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G12-PKG3230875	23156523	2	PCS	1425	1410
G12-PKG3230879	23156523	2	PCS	1425	1410
G12-PKG3240417	23169157	2	PCS	1424	1418
G12-PKG3240468	23169157	2	PCS	1424	1418
G12-PKG3240527	23169157	2	PCS	1424	1418

Composition Limits

Aug 30/18

Del.: 2406199901
 CstOr Kevin - 08/29/18
 Date 08/29/2018

From: TK Materials CA, Ltd.
 Cust. NEXXA INDUSTRIES LTD
 CstAr
 Wgt.: 60 LB



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1550 KIRBY LANE
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Sales Order Number
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Kevin Sanchez

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)	
	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
Alloy	Ti		Others Each		Others Total									
	PCT (%)		PCT (%)		PCT (%)									
	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
4043074	0.74	0.36	0.33	0.13	0.95	0.14	0.13	0.02	---	---
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4043168	0.74	0.33	0.31	0.13	0.97	0.15	0.04	0.03	---	---
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4043172	0.72	0.31	0.33	0.12	0.93	0.14	0.04	0.02	---	---
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4043176	0.72	0.32	0.32	0.12	0.95	0.14	0.05	0.03	---	---

Mechanical Property - Test Limits

Test Temper	Lot Number	R of Tests	UTS - L		TYS - L		El. 4D-Long	
			KSI		KSI		PCT	
			MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
7851111	23156923	1	55.4	55.4	51.6	51.6	12.5	12.5

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Hydro Extrusion USA, LLC
 1550 KIRBY LANE
 SPANISH FORK, UT
 84660 1349

Certified Test Report

Sales Order Number: 1101395696
 Line No.: 6
 Customer P/O: 5400404573 R05-0060

Cert Number: HYDRO2887372
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 Cert Print Date: 08-JUN-18

Thomas Sanchez

Test Type			UTS - 1.		TYS - 1.		El. 4D-Long	
T6M			KSI		KSI		PCT	
# of Tests			--		--		--	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T651111	23169157	1	57.5	57.5	52.3	52.3	12.0	12.0

Cert Notes
 Products manufactured with a T6511 temper also meet T6 temper requirements.
 Yield strength has been determined by the 0.2% offset method.
 All mill finish alloys produced at Sapa Extrusions Inc comply with Directive 2011/65/EU (RoHS 2) with the exception of 6262 alloy
 In accordance with EN 10204 Inspection Certificate Type 3.1
 For U.S. Government sales: Items supplied are compliant with the Buy American Act, FAR 52.225-1, and DFARS 252.225-7001.
 Melted and manufactured in the USA.
 Mercury is not a normal constituent in aluminum alloys and we do not knowingly use it in the manufacture of our goods.

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