

Z00028052

KAISER ALUMINUM

FABRICATED PRODUCTS

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6250 EAST BANDINI BLVD
LOS ANGELES, CA 90040-3168

CUSTOMER PO NUMBER: 5400145000-1		CUSTOMER PART NUMBER: ALRD00013		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 6.250 +/- .022	
KAISER ORDER NUMBER: 5018119	LINE ITEM: 001	SHIP DATE: 05/15/2012	KAISER LOT NUMBER: Z00028052	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 5196.000 LB	QUANTITY: 12.000 PCS	B/L NUMBER: 529159	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: COPPER & BRASS SALES 13338 ORDEN DR, BLDG H SANTA FE SPRINGS, CA 90670 USA			SOLD TO: COPPER & BRASS SALES PO BOX 5116 SOUTHFIELD, MI 48086-5116 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00028052	0001	1	55.6	52.6	13.7	RE 93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40		0.15		0.8	0.04			NA	NA	NA		
K01186	.73	.32	.26	.09	.92	.08	.04	.02	.00	.00	.00	.01	.01
K01170	.75	.44	.29	.09	.93	.10	.11	.03	.00	.00	.01	.01	.01

Applicable Requirements:

PER ASTM-B221-08, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA (KALAMAZOO,MI) MELTED IN USA

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Mark Shelley, Quality Manager

Plant Serial: 00236769

Kaiser Order Number: 5018119

Line Item: 001