



TICO TITANIUM, INC Certification of Tests

30150 S Wixom Rd • Wixom • MI • 48393-3340 • 248-446-0400 • 800-521-4392 • Fax 248-446-1995
519 Todd Dr • Oak Ridge North • TX • 77385-7332 • 281-355-6555 • 888-676-7575 • Fax 281-355-6676

TO: CATEG
CAL TECH - KEN MAILAND
LIGO 100-36
391 S. HOLLISTON AVE
PASADENA, CA 91125

DATE: 10/15/2012
CUSTOMER PO: VERBAL B0B
TICO SO: 4298

HEAT NUMBER: H15905

SPECIFICATION: ASTM B-348-11/ASME SB-348-01 **** GR. 1, 2 & 3 ****
EN 10204:2004 TYPE 3.1

DESCRIPTION: ROUND WIRE .063" DIA X 26.29" 15 PCS.

COMMENTS:

CHEMISTRY %:

Fe	IRON	0.07
O	OXYGEN	0.08
N	NITROGEN	0.002
C	CARBON	0.01

RESIDUAL ELEMENTS (EACH) LESS THAN 0.10
RESIDUAL ELEMENTS (TOTAL) LESS THAN 0.40

FINAL PRODUCT HYDROGEN: <.003
TITANIUM REMAINDER

TENSILE DATA:	TEST 1	TEST 2	TEST 3	TEST 4
TENSILE PSI:	85500			
YIELD 0.2% OFFSET:	67000			
ELONGATION % IN 4D:	40			
RA %:	49			

PRODUCT ANNEALED: YES

PHYSICAL/MECHANICAL TEST DATA:		
HYDROSTATIC:	ULTRASONIC:	GUIDED BEND:
FLATTENING:	PNEUMATIC:	
FLARE:	EDDY CURRENT:	

MATERIAL FREE FROM MERCURY CONTAMINATION
MATERIAL CONFORMS TO ALL TECHNICAL AND WORKMANSHIP REQUIREMENTS OF SPECIFICATIONS

Carrie Westfal, Certification Clerk



Packing List

Packing List 4518-1
Cust/Ship to 3773/0



Shipment Dt 10/15/2012

Ship-To
CAL-TECH
1200 EAST CALIFORNIA BLVD
PASADENA, CA 91125

Issued from
Tico Titanium, Inc.
30150 South Wixom Rd
Wixom, MI 48393

Sold-To
CAL-TECH
1200 EAST CALIFORNIA BLVD
PASADENA, CA 91125

Divy Car	thd	UPS	To Ref	Vehicle No	Trailer No
Item		UPS GRND PPADD			
Our 1-1	er 4298	Your PO	VERBAL-BOB (10/12/2012)		
	ound Stock Grade 2 Titanium Mill				
	Finish				
	0.063" Diameter x 26.29"				
Shp MI	Certificate	Ven Tag ID	Heat	Tag	Pcs
1 1	Material Certification	H15905	H15905	S351096Y	15
					LBS
					0.20

Total for the Shipment 0.2 LBS

Inside Slp Inside Sales
Taken-by Slp Monette Lafave

(203) 949-1600
(248) 446-0400 Ext 6228

(248) 446-1995

CREDIT CARD