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MILL CERTIFICATE
5/8/2018

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Salesone LLC 16 Fitch St., Norwalk, CT 06855

MUTUAL CORNELL

Mark Hollis / Guy Pineda
Sales One LLC
16 Finch Street
Norwalk, CT 06855

May 7, 2018

CERTIFICATE OF ANALYSIS
Date Submitted: 4/25/2018
18065003-3
XRF Assay Composition

PO Number: NA
Style number: TIBI411
Sample Desc.: Bar with End Balls
Sample Date: 3/27/2018

Date Analyzed: 5/7/2018
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.636	%/wt.	**Pass**
Aluminum	5.740	%/wt.	
Vanadium	4.567	%/wt.	
Iron	0.057	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.

Analyzed & Documented by: Maggie Eastwood, Lab Technician

Reviewed by: Rich DiDonato, Quality Manager

Kevin E. Donahue
Laboratory Director

Jeff Mascoli
Laboratory Manager

The above results were obtained using a Fischer Technologies Fischerscope XAN-DPP-X-Ray Fluoroscope (XRF).
After grinding test results indicate the approximate assay composition of the substrate base metal only.
The approx. measurement error is within +/- 5.0%, max., of the measured values per typical instrumental methods.
Samples submitted by customer, results relate only to items tested.

136 Corliss Street, Providence, Rhode Island 02904 • Mailing Address: P.O. Box 40632, Providence, Rhode Island 02904
Tel (401) 274-9998 • Fax (401) 274-9990

MUTUAL CORNELL

Mark Hollis / Guy Pineda
Sales One LLC
16 Finch Street
Norwalk, CT 06855

May 7, 2018

CERTIFICATE OF ANALYSIS
Date Submitted: 4/25/2018
18065003-1
XRF Assay Composition

PO Number: NA
Style number: TITLSBL-5
Sample Desc.: Ball with Post
Sample Date: 3/27/2018

Date Analyzed: 5/7/2018
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	88.827	%/wt.	**Pass**
Aluminum	5.931	%/wt.	
Vanadium	5.068	%/wt.	
Iron	0.174	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.

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MUTUAL CORNELL

Mark Hollis / Guy Pineda
Sales One LLC
16 Finch Street
Norwalk, CT 06855

May 7, 2018

CERTIFICATE OF ANALYSIS
Date Submitted: 4/25/2018
18065003-2
XRF Assay Composition

PO Number: NA
Style number: TIFLI601
Sample Desc.: Ball with Bar & Pad
Sample Date: 3/27/2018

Date Analyzed: 5/7/2018
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.408	%/wt.	**Pass**
Aluminum	5.709	%/wt.	
Vanadium	4.810	%/wt.	
Iron	0.073	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.

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Reviewed by: Rich DiDonato, Quality Manager

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Laboratory Director

Jeff Mascoli
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MUTUAL CORNELL

Mark Hollis / Guy Pineda
Sales One LLC
16 Finch Street
Norwalk, CT 06855

September 8, 2017

CERTIFICATE OF ANALYSIS
Date Submitted: 9/6/2017
17062746-4
XRF Assay Composition

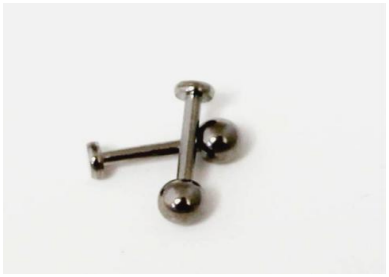
PO Number: NA
Style number: TILI801
Sample Desc.: Small Bars with Round Ball
Sample Date: 9/5/2017

Date Analyzed: 9/8/2017
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.772	%/wt.	**Pass**
Aluminum	5.610	%/wt.	
Vanadium	4.484	%/wt.	
Iron	0.134	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.



Analyzed & Documented by: Maggie Eastwood, Lab Technician

Reviewed by: Rich DiDonato, Quality Manager

Kevin E. Donahue
Laboratory Director

Jeff Mascoli
Laboratory Manager

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MUTUAL CORNELL

Mark Hollis / Guy Pineda
Sales One LLC
16 Finch Street
Norwalk, CT 06855

September 8, 2017

CERTIFICATE OF ANALYSIS
Date Submitted: 9/6/2017
17062746-6
XRF Assay Composition

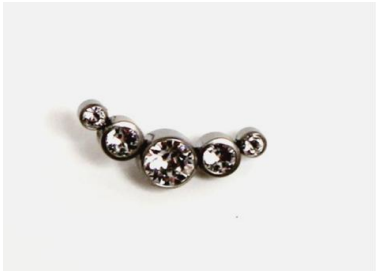
PO Number: NA
Style number: TICL5
Sample Desc.: Casting with Five Stones
Sample Date: 9/5/2017

Date Analyzed: 9/8/2017
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.902	%/wt.	**Pass**
Aluminum	5.500	%/wt.	
Vanadium	4.474	%/wt.	
Iron	0.124	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.



Analyzed & Documented by: Maggie Eastwood, Lab Technician

Reviewed by: Rich DiDonato, Quality Manager

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Laboratory Director

Jeff Mascoli
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MUTUAL CORNELL

Mark Hollis
Sales One LLC
16 Finch Street
Norwalk, CT 06855

December 14, 2016

CERTIFICATE OF ANALYSIS
Date Submitted: 12/13/2016
16060051-1RR
Assay Composition

PO Number: NA
Style number: NA
Sample Desc.: Samples
Sample Date: 12/09/2016

Date Analyzed: 12/14/2016
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.880	%/wt.	**Pass**
Aluminum	5.629	%/wt.	
Vanadium	4.250	%/wt.	
Iron	0.241	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.

Analyzed & Documented by: Maggie Eastwood, Lab Technician

Reviewed by: Rich DiDonato, Quality Manager

Kevin E. Donahue
Laboratory Director

Jeff Mascoli
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MUTUAL CORNELL

Mark Hollis / Guy Pineda
Sales One LLC
16 Finch Street
Norwalk, CT 06855

December 22, 2016

CERTIFICATE OF ANALYSIS
Date Submitted: 12/20/2016
16060121-1
Assay Composition

PO Number: NA
Style number: TIBI4921
Sample Desc.: Bar
Sample Date: 12/19/2016

Date Analyzed: 12/22/2016
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.893	%/wt.	**Pass**
Aluminum	5.510	%/wt.	
Vanadium	4.490	%/wt.	
Iron	0.107	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.

Analyzed & Documented by: Maggie Eastwood, Lab Technician

Reviewed by: Rich DiDonato, Quality Manager

Kevin E. Donahue
Laboratory Director

Jeff Mascoli
Laboratory Manager

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MUTUAL CORNELL

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Sales One LLC
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December 22, 2016

CERTIFICATE OF ANALYSIS
Date Submitted: 12/20/2016
16060121-2
Assay Composition

PO Number: NA
Style number: TIBI451
Sample Desc.: Bar
Sample Date: 12/19/2016

Date Analyzed: 12/22/2016
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.837	%/wt.	**Pass**
Aluminum	5.627	%/wt.	
Vanadium	4.393	%/wt.	
Iron	0.143	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.

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MUTUAL CORNELL

Mark Hollis / Guy Pineda
Sales One LLC
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Norwalk, CT 06855

December 22, 2016

CERTIFICATE OF ANALYSIS
Date Submitted: 12/20/2016
16060121-3
Assay Composition

PO Number: NA
Style number: TICI421
Sample Desc.: Bar
Sample Date: 12/19/2016

Date Analyzed: 12/22/2016
Analyzed by: ME

	Results	Unit	Grade 23 (Pass / Fail)
Titanium	89.955	%/wt.	**Pass**
Aluminum	5.542	%/wt.	
Vanadium	4.390	%/wt.	
Iron	0.113	%/wt.	

Note(s): The submitted samples were tested in accordance with the TI-6AL-4V ELI ASTM F136 guidelines.

The chemical composition for Grade 23 Ti 6Al 4V Eli Alloy is specified as 88 -91% Titanium, 5.5 - 6.5% Aluminum, 3.5 - 4.5% Vanadium, and ≤ 0.25% Iron. After failing to detect any aluminum by XRF, the sample was digested and measured for aluminum by inductively coupled plasma (ICP) with the above test results.

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BAOJI CITY JINXIU RARE METALS LTD

QUALITY CERTIFICATION

Certificate No.20160707

Contract No.	Product	Designation No	LOT No.	Condition	Size(mm)		Net Weight	Specification	
JX20160409	Titanium Bar	Ti6Al4V ELI	JXTD1510-17	M	Ø7.5×2000		53.60	ASTM F136	
					Ø4.0×2000		200.80		
					Ø3.0×2000		96.60		
Tensile Test	Sample Condition	σb	σ0.2	δb	ψ	ak	HB(d)		
		Tensile Strength	Yield Strength	Elongation	Reduction area[%]	[J/cm^2]	[mm]	Bend Test	
		[MPa]	0.2%[MPa]	[%]					
	M	920	850	14	45	/	/	/	/
Position	Chemical Composition（（%）								
	Ti	Fe	C	N	H	O	Al	V	Others
Top	Remainder	0.05	0.01	0.01	0.001	0.08	5.90	4.00	Each<0.10
Middle	Remainder	/	/	/	/	/	/	/	Total<0.40
Note					Stamp				

Inspector: Xiao Gang　　Reviewer: Wang Yang　　Date:July 7,2016