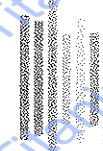


EXOVA

10005 Freeman Avenue, Santa Fe Springs, CA, 90670

Tel: (562) 946-1721 Fax: (562) 944-8389 www.exova.com



Customer: TITANIUM METAL SUPPLY
12215 KIRKHAM ROAD
POWAY, CA 92064

PO/SO: 13-5891

Lab No: 587911

Date: 05/16/13

Material: 6Al-4V Titanium Grade 5
Specification: ASTM B265, Rev: 11E1
COND: ANNEALED; CUSTOMER REQTS.

P/N:
Size: 2.5" THK X 6" X 6"

Heat Number: 02175DA
Other: PLATE

CERTIFICATION OF TEST

METALLURGY	TENSILE TEST		TEMP'F	STRESSED DIM	STRESSED AREA	TYS @ 0.2% OFF		TENSILE STRENGTH		ELONG (4D)		RED. OF AREA	
	LOC/ORIENTATION					LBS	KSI	LBS	KSI	IN	%	FIN. DIM.	%
	1/4T LONG		RT	.503 D	.1987	26184	131.8	27882	140.3	0.250	12.5	.428 D	27.6
	1/4T LONG TRANS		RT	.501 D	.1971	26759	135.8	28459	144.4	0.252	12.6	.439 D	23.2
	Min. Requirements						120		130	2.000G	10		

Conforms to requirements.

Signed for and on behalf of Exova

DT PAGE: 1 of 2



LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate #12195.01 Testing

David Tallini, Quality Manager
EXOVA

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Materials Testing Laboratory

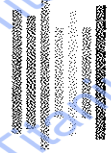
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Tel: (562) 946-1721 Fax: (562) 944-8389 www.exova.com

EXOVA



Customer: TITANIUM METAL SUPPLY
12215 KIRKHAM ROAD
POWAY, CA 92064
Material: 6Al-4V Titanium Grade 5
Specification: ASTM B265, Rev: 1181
COND: ANNEALED; CUSTOMER REQTS.

PO/SO: 13-5891

P/N:
Size: 2.5" THK X 6" X 6"

Lab No: 587911

Date: 05/16/13

Heat Number: 02175DA
Other: PLATE

CERTIFICATION OF TEST

CHEMISTRY ELEMENT		MINIMUM REQ'S	MAXIMUM REQ'S	ACTUAL	COMMENTS
Unless otherwise indicated all units are in weight %					
N2	Nitrogen		0.05	0.01	
C	Carbon		0.08	0.02	
H2	Hydrogen		0.015	0.004	
Fe	Iron		0.40	0.15	
O2	Oxygen		0.20	0.19	
OE	Other Elements Each		0.1	0.1	Less than
OET	Other Elements Total		0.4	0.4	Less than
Ti	Titanium	BAL		BAL	
Al	Aluminum	5.5	6.75	6.32	
V	Vanadium	3.5	4.5	3.8	

Conforms to requirements.

Comment: METHOD: XRF, COMBUSTION, IGF.

Signed for and on behalf of Exova

Accredited

Nadcap

Materials Testing Laboratory



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David Tallini, Quality Manager

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