

EXOVA
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EXOVA

TEST CERTIFICATE

Grandis Titanium
 30422 Esperanza
 Rancho Santa Margarita, California 92688
 United States of America

PO / SO: 20140520
 Material: Grade 2 Titanium

Exova Lab#: 620470
 Certification Date: 06/02/14

Size: 0.020" Thick
 Heat Number: CN1334MA
 Specification(s): ASTM B265 Rev. 13Ae1
 GT#: 5553.2

Chemical Analysis

Element	Description	Result	Min	Max	Unit	Method	Comments
N2	Nitrogen	< 0.01		0.03	Wt. %	Fusion	
C	Carbon	0.03		0.08	Wt. %	Combustion	
H2	Hydrogen	0.003		0.015	Wt. %	Fusion	
Fe	Iron	0.08		0.30	Wt. %	XRF	
O2	Oxygen	0.10		0.25	Wt. %	Fusion	
OE	Other Elements	< 0.1		0.1	Wt. %	XRF	
OET	Other Elements Total	< 0.4		0.4	Wt. %	XRF	
Ti	Titanium	BAL	BAL		Wt. %	XRF	

Tensile Test (Room Temp.)

Direct.	Temp. °F	Stressed Dimension in	0.2% Yield		Ultimate		Elong 4D/4W		Test Method
			lbs	ksi	lbs	ksi	in	%	
Longitudinal	RT	0.496 (w) X 0.0202 (t)	514	51.3	702	70.1	2.660	33.0	ASTM E8
Min. Requirements:				40		50		20	
Max. Requirements:				65					

Disposition

Conforms to requirements.



Marlon Garcia
 Marlon Garcia, Quality Technician

Nadeep
 Materials Testing Laboratory