

EXOVA

10095 Freeman Avenue, Santa Fe Springs, CA 90670
Tel: (562) 946-1721 Fax: (562) 944-8389
www.exova.com



TEST CERTIFICATE

PO / SO: 20170925

Material: 6Al-4V Titanium

Exova Lab#: 995892

Certification Date: 10/03/17

Specification(s): AMS 4911 Rev. M. ASTM B348 Rev. 13 Grade 5

GT#: 5861

Size: 3.75" x 48" x 144"

Heat Number: H21171

Description: Plate

Metallurgical Examination	
Description	Disposition
Microstructure	Conforms
Alpha Case	Conforms

Tensile Test (Room Temp.)											
Direct.	Temp. °F	Stressed Dimension in	0.2% Yield lbs	0.2% Yield ksi	Ultimate lbs	Ultimate ksi	Elong 4D/4W in	Elong 4D/4W %	R of A in	R of A %	Test Method
As Supplied Long	RT	0.250 (d)	6418	130.7	7018	143.0	1.133	13.3	0.212	28.1	ASTM E8
Min. Requirements:			120		130			10		25	

Chemical Analysis							
Element	Description	Result	Min	Max	Unit	Method	Comments
Al	Aluminum	6.51	5.50	6.75	Wt. %	XRF	
V	Vanadium	3.96	3.50	4.50	Wt. %	XRF	
Fe	Iron	0.17		0.30	Wt. %	XRF	
O2	Oxygen	0.19		0.20	Wt. %	Fusion	
C	Carbon	0.02		0.08	Wt. %	Combustion	
N2	Nitrogen	0.01		0.05	Wt. %	Fusion	
H2	Hydrogen	0.005		0.015	Wt. %	Fusion	
Ti	Titanium	BAL	BAL		Wt. %	XRF	
Y	Yttrium	< 0.001		0.005	Wt. %	XRF	
OE	Other Elements	< 0.10		0.10	Wt. %	XRF	
OET	Other Elements Total	< 0.40		0.40	Wt. %	XRF	

Disposition	
Conforms to requirements.	

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Certification Issue ID: 77982, Version 1

Methods of data unit conversion, if applicable, and rounding method are in accordance with or as referenced by the specifications stated herein. IEEE/ASTM SI 10, and/or customer requirements.
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Signed for and on behalf of Exova

Celina Tang, Technical Quality Associate



ACCREDITED LABORATORY