

Perryman company

213 Vandale Drive Houston, PA 15342 USA

phone: 724-746-9390 fax: 724-746-9392

Certified Test Report

Melting Source: PVD7716 \ Perryman Company, USA

Quantity:

Date:

Work Order No: 156115

Product TI 6AI-4V .2495/.2505" Dia. CG Bar X 12' R/I

Customer Order No: Specification: AMS 4967M, AMS 4928W, AMS 6931D, AMS 2241S,

ASTM B348 GR 5 REV 19, AMS T-9047A, ASTM F1472-20a Condition: Annealed 1400 F 2 Hours

EN 10204 3.1 (2004), AS6279B, MIL-H-81200B, MIL-T-9047G Comp Ti6AI-4V Cond A AM 2 Chg Not 1,

AMS-H-81200D , ASME SB-348 GR 5 (2007) ,

Chemistry Wt % ASTM E 1447: Post processing Hydrogen Determination H; 0009

Microstructure -

Equiax alpha-beta

ASTM E 407:

No alpha case 500x

Metallographic Examination: ASTM E407: Macrostructure -Acceptable per AMS 2643F Etchant PER 6

As Shipped Mechanical Properties ASTM E8/EN 2002-001:2005E Condition 153.3 Tensile Strength 139.4 Strength Elongation 23 Reduction 🔾 of Area

1750 F 1 hr WQ Solution treated and aged 000 F 4 hr AC

Perryman has complied with all producer requirements of AS6279

Eddy current inspection - Passed

This is to certify that all test results conform to the specifications listed above and that all tests required were performed by Perryman Company.

The material did not come in contact with Mercury or radioactive contamination at Perryman.

Attached is a copy of the Ingot Chemistry. All testing performed at room temperature unless otherwise noted. The test results relate only to the lots tested and are contained in the records of Perryman Company. The Certified Test Report cannot be reproduced except in full, without written approval. Made in USA

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Zachary S. Diagan Laboratory Manager

Nadcap ACCREDITED

Materials Testing Laboratory



Perryman company 625 Technology Dr., Coal Center, PA 15423

phone: 724-746-9390 fax: 724-746-9392

SHIP TO

Perryman Company 213 Vandale Drive Houston, PA 15342

CERTIFICATE OF JEST FOR TITANIUM INGOT

WORK ORDER 042182 HEAT NUMBER PVD7716

QUA 12600	NTITY Lbs	PCS	Wb,	Long
				X

DESCRIPTION

FORM: Ingot, Grade: Ti6Al/4V, Size: 30

SPECIFICATION CAPABILITY

P-101 Rev 6

1	F-IOTING V	(1)
1	Chemistry (WT%) Top	
1	N C Fe Al V Si Cu Pd Y H B Ru	
	0 N C Fe Al V SI 000 0004 0004 0002 0003	C
K	Chemistry (WT%) Bottom	1
1	Ci Pd Y H B Ru	
1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	YIO.
	.15) .001	
1	Comments	
	Melting Process:	10
	EBCHR-VAR	
7		
	Calculated Beta Transus T/B:	9
1	1817F/1817F	
1	Calculated Beta Transus T/B C:	1 ~
1	992C/992C	
1		
	Residual Elements, each < .05%	
1	Residual Elements, total < .20%	ĭ.
	Balance Titanium.	
	Melted in the United States of America.	100
	The material is free of radioactive and mercury contamination.	
4	Oxygen/Nitrogen tested in accordance with ASTM E1409.	
	Carbon tested in accordance with ASTM E1941.	(O)
1	Hydrogen tested in accordance with ASTM E1447.	
	B tested in accordance with ASTM E2994.	
	Metallics Tested By XRF in accordance with ASTM E539. Florents not required by specification are included in Others(each) and Others(Total)	1 .6
\mathcal{A}	F LIAMANTEMAT FORMITHING SUPERINGULI DE MICHAMANTE TELETATORIA ()	

mium sample

and Oth Elements not required by specification are included in Others(each) and Others(Total) TWS Titanium San

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there cert Zample Cert TMS This material conforms to the chemistry and quality system requirements of the specifications and/or Purchase Order referenced. The results relate only to the lot tested and the results are contained in the records of Perryman Company.

The certificate of test cannot be reproduced except in full without the written approval of the laboratory, and the recording of false, fictitious, or fraudulent statements or entries on this Titanium San age) document may be punished as a felony under federal law.

puone Terrance J. Marth

Laboratory Supervisor A Saning San

Titanium Date Printed: 06/09/2020 manle Cert