



Perryman company
 213 Vandale Drive Houston, PA 15342 USA
 phone: 724-746-9390 fax: 724-746-9392

Certified Test Report

Heat No: **PVD4026** Date: **01/24/2017**
 Melting Source: **Perryman Company, USA** Quantity: **100** Lbs
 Work Order No: **107392**

Customer Order No: **ASTM F136-13, AMS 4930H, AMS T-9047A, MIL-T-9047G, ASTM B348 gr 23 Rev 13**
 Product: **✓ Ti 6Al-4V ELI, 1245/1255" Dia. CG Bar X 12' RL**
 Condition: **✓ Annealed 1300 F 1 Hour** H: **✓ .0014**
 Post Processing Hydrogen Determination **✓** **ASTM E 407: Surface Contamination - No alpha case**

Chemistry: **Wt%** **ASTM E 1447:**
 Metallographic Examination: **ASTM E 407:** **Microstructure - Equiax alpha-beta**
Macrostructure - Acceptable per AMS 2643E

Mechanical Properties:
ASTM E8/EEN 2002-001:2005 E

Tensile Strength	2% Yield Strength	Elongation 4D	Reduction of Area
ksi	ksi	%	%
148.7	129.6	22	46
148.9	129.4	22	43

Condition: **As Shipped**

Eddy Current Inspection Pass
 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.
 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.

Zachary S. Dragan
 Zachary S. Dragan
 Laboratory Manager



Perryman company

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Perryman Company

213 Vandale Dr

Houston, PA 15342

CERTIFICATE OF TEST

For TITANIUM INGOT

WORK ORDER

020515

HEAT NUMBER

PVD4026

QUANTITY		PCS										
12295 Lbs		1										
DESCRIPTION												
✓ Grade: Ti6Al4V Eli, Size: 30", Form: Ingot												
SPECIFICATION CAPABILITY												
P-104 Rev 2												
✓ Chemistry (WT%) Top												
O	N	C	Fe	Al	V	Si	Cu	Pd	Y	H	B	Ru
.11	.006	.014	.17	6.19	3.97	.012	.002	<.002	<.001	.0003	<.001	<.001
Chemistry (WT%) Bottom												
O	N	C	Fe	Al	V	Si	Cu	Pd	Y	H	B	Ru
.11	.005	.013	.17	6.23	4.01	.014	.002	<.002	<.001	.0003	<.001	<.001
Comments												
Melting Process: EBCHR-VAR												
Calculated Beta Transus T/B: 1799F/1799F												
Calculated Beta Transus T/B C: 982C/982C												
Residual Elements, each < .10%												
Residual Elements, total < .30%												
Balance Titanium.												
✓ Melted in the United States of America.												
✓ The material is free of radioactive and mercury contamination.												
Oxygen/Nitrogen tested in accordance with ASTM E1409.												
Carbon tested in accordance with ASTM E1941.												
Hydrogen tested in accordance with ASTM E1447.												
B, Y, Pd, Ru tested in accordance with ASTM E2371.												
Metallics Tested By XRF in accordance with ASTM E539.												
Elements not required by specification are included in Others(each) and Others(Total)												



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This material conforms to the chemistry and quality system requirements of the specifications 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 document may be punished as a felony under federal law.

Terrance J. Marsh
Terrance J. Marsh
Laboratory Supervisor

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