

, ert This Trail NS Titanium Samp er Hanium Sample Cert NS THAINTIMES St. Louis Mill Sales 1250 Interstate Drive WENTZVILLE MO 63385 Tel:800-753-1550 Fax:636-887-9098 Shipping Plant: St. Louis Service Center

Attachment to **Product Certification**

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| 1,5 | St. Louis Mill Sales 1250 Interstate Drive | Attachment to Product Certification |
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| | WENTZVILLE MO 63385 USA | 80720526/May 13, 2016 |
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| | Titanium Metal Supply | Titanium Metal Supply |
| ? | 12215 Kirkham Road, Suite 300 | 12215 Kirkham Road, Suite 300 |
| | POWAY CA 92064 | POWAY CA 92064 |
| ·6 | Sold-to Address Titanium Metal Supply 12215 Kirkham Road, Suite 300 POWAY CA 92064 USA | USA IVI O MINING |
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Results are from TIMET Quality Control Records on file. The undersigned has verified that the information on the attached mill product certification meets the requirements of the above referenced order. This Attachment to PAGE 1/ Product Certification is specific to your referenced order, is an integral part of and amends the physical and chemical test reports attached. All specification(s) and revision(s) that differ from the attached have been approved for inclusion by the producing facility. itanium Sam

Authorized TIMET Signature

TIMEY 107

BRIAN STALEY Quality Assurance Representative



Approved Certificate

in Sample Cert

100 Titanium Way Toronto, OH, 43964

Telephone (740) 537-5694, Fax (740) 537-5653

Page 1 of 5

CERT ID

H24194-F01

08-APR-2016 16:43:36 GMT

SOLD TO CUSTOMER

TIMET Service Center St. Louis 1250 Interstate Drive, Wentzville, MO 63385

20128848 PURCHASE ORDER

HEAT NUMBER H24194

GRADE TIMETAL®6-4 SHIP TO ADDRESS

TIMET Service Center St. Louis 1250 Interstate Drive, Wentzville, MO 63385

TEST NUMBER

S10887

PRODUCT DESCRIPTION

0.080" SQ Sheet

DELIVERY CONDITION TMS Titanium Samp NS Titanium Sample Cert

Specifications

This material complies with the following specifications:

AMS 4911 N

AMS-T-9046 A AB-1 Cond A

ASTM B 265 -13ae1 Gr. 5

ASTM F 1472 -14

BS 2TA59 2009

BS 7252 PART 3 1997

DMS 1592 H

ISO 5832-3 7/1/96

AB-1 Cond A MIL-T-9046 J AM 2

Melt Method

Melt/Process Location

3-VAR

3ample Cert TIMET - Henderson, NV, USA /

TIMET - Toronto, OH, USA

Compliance Statements

- Surface free from alpha case and product conforms to the other technical requirements of the referenced specification(s).
- During the manufacturing process, this material has not come in contact with mercury or radioactive luminescent materials; as such, it is certified to be free of mercury and radioactivity.
- Microstructure examined and acceptable to the order specifications.
- Bend testing performed meets or exceeds the requirements of the ordered specifications.
- TIMET-Toronto is an approved supplier of this product per DMS QPL 1592 Issue 19. Ingot melted in accordance with DMS 2442E R-1; TIMET-Henderson, NV, is an approved ingot source per DMS QPL-2442 Issue 20.
- No weld repair has been performed on this material.
- Material complies with DFARS 252.225-7008.
- Material certificate in compliance with EN 10204:2004 Type 3.1.
- The recording of false, fictitious, or fraudulent statements or entries on this document may be punishable as a felony under Federal Statutes including federal law, Title 18, Chapter 47.
- TIMET-Toronto has complied with all metal stock producer requirements of AS6279.
- 11. TIMET-Toronto has a Quality Management System that is in compliance with ISO 9001:2008, and AS 9100:2009 Revision C. (AS9100 certificate is available at www.timet.com)
- Customer will accept TIMET EXCEPTION to microstructure requirements of BS 7252 PART 3 & ISO 5832-3

This test report shall not be reproduced except in full, without the written approval of TIMET.

The intentional recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



Approved Certificate

100 Titanium Way Toronto, OH, 43964 Telephone (740) 537-5694, Fax (740) 537-5653

CERT ID H24194-F01 08-APR-2016 16:43:36 GMT SOLD TO CUSTOMER TIMET Service Center St. Louis

1250 Interstate Drive, Wentzville, MO 63385

PURCHASE ORDER

20128848

Ingot Chemical Analysis

(Weight percent)

Unless otherwise noted, Ingot Chemical Analysis performed at Henderson Process Lab, 181 N. Water Street, Henderson, NV, 89015, USA

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Product Analysis

le Cert IMS Unless otherwise noted, Product Analysis performed at Toronto Laboratory, 100 Titanium Way, Toronto, OH, 43964, USA NS Titanium ium Sample nium Samp

plecent

Sample ID

Chemistry Statements

- Hydrogen values reported in PPM, Hydrogen determined by inert gas fusion per ASTM E1447. Carbon determined by combustion per ASTM E1941. Oxygen and Nitrogen determined by inert gas fusion per ASTM E1409. Henderson Melt: Metallics determined by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) per ASTM E2371. Jim Sample Cert Morgantown Melt: Copper and Boron by atomic spectrometry (ingot only) and all other elements by x-ray fluorescence Je Cert This Titanium Sam MS Titanium Sample Cert
- Residual elements each less than 0.10% maximum, 0.40% maximum total. nium Sample Cert TMS TWS Titanium Sample
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Jum Sample Cert This test report shall not be reproduced except in full, without the written approval of TIMET.

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Titanium Approved Certificate

100 Titanium Way Toronto, OH, 43964

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| 1 | IME | Toronto, OH, 43964 | | Page 3 | 005 |
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100 Titanium Way Toronto, OH, 43964

Telephone (740) 537-5694, Fax (740) 537-5653

Page 4 of 5

CERT ID H24194-F01

08-APR-2016 16:43:36 GMT

SOLD TO CUSTOMER

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Cert wis Titanium Sample

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Regi tanium Sample Cert This test report shall not be reproduced except in full, without the written approval of TIMET.

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Page 5 of 5

CERT ID H24194-F01 08-APR-2016 16:43:36 GMT SOLD TO CUSTOMER TIMET Service Center St. Louis 1250 Interstate Drive, Wentzville, MO 63385

PURCHASE ORDER

20128848

Tests on Other Material

Unless otherwise noted, testing performed at Toronto Laboratory, 100 Titanium Way, Toronto, OH, 43964, USA

Batch: H24194-F01 (S10087)

Bend Test, T-Direction, R/T, (ASTM E 290)

BF 5.0

Test Condition: Periodic Test: [MILL] Annealed 30 Minutes @ 1400°F, AC + [LAB] Annealed 20 Minutes @ 1325°F, Jim Sample

20X105

Sample Id

bend PASS

Batch: H24194-F01 (S10087)

RTT - Longitudinal (ASTM E 8) After Fracture

Annole Cert This Tranium? Test Condition: Periodic Test: [MILL] Annealed 30 Minutes @ 1400°F, AC + [LAB] Annealed 20 Minutes @ 1325°F, AC

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Digitally signed by Michelle Edwards DN: c=US, st=OH, (=Toronto,

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