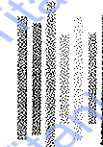


EXOVA

10005 Freeman Avenue, Santa Fe Springs, CA. 90670

Tel: (562) 946-1721 Fax: (562) 944-8389 www.exova.com

EXOVA



Customer: TITANIUM METAL SUPPLY  
12215 KIRKHAM ROAD  
POWAY, CA 92064  
Material: 6Al-4V Titanium Grade 5  
Specification: ASTM B265, Rev: 11E1  
COND: ANNEALED

PO/SO: 13-5912

P/N:  
Size: 3" THK X 6" X 6"

Lab No: 588543

Date: 05/21/13

Heat Number: 01956DB  
Other: PLATE

CERTIFICATION OF TEST

| METALLURGY | TENSILE TEST<br>LOC/ORIENTATION | TEMP'F | STRESSED<br>DIM | STRESSED<br>AREA | TYS @ 0.2% OFF |       | TENSILE STRENGTH |       | ELONG (4D) |      | RED. OF AREA |      |
|------------|---------------------------------|--------|-----------------|------------------|----------------|-------|------------------|-------|------------|------|--------------|------|
|            |                                 |        |                 |                  | LBS            | KSI   | LBS              | KSI   | IN         | %    | FIN. DIM.    | %    |
|            | 1/4T LONG                       | RT     | .500 D          | .1963            | 26060          | 132.8 | 27506            | 140.1 | 0.287      | 14.4 | .424 D       | 28.1 |
|            | 1/4T LONG TRANS                 | RT     | .499 D          | .1956            | 26811          | 137.1 | 28124            | 143.8 | 0.273      | 13.7 | .428 D       | 26.4 |
|            | Min. Requirements               |        |                 |                  |                | 120   |                  | 130   | 2.000G     | 10   |              |      |

Conforms to requirements.

MCG PAGE: 1 of 2

Signed for and on behalf of Exova

Accredited



LABORATORY  
ACCREDITATION  
BUREAU  
ACCREDITED ISO/IEC 17025  
Certificate #: 2195-01 Testing

*David Tallini*  
David Tallini, Quality Manager  
EXOVA

**Nadcap**  
Materials Testing Laboratory

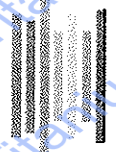
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CERTIFICATION OF TEST

| CHEMISTRY ELEMENT                                    | MINIMUM REQ'S | MAXIMUM REQ'S | ACTUAL | COMMENTS  |
|--|---------------|---------------|--------|-----------|
| Unless otherwise indicated all units are in weight % |               |               |        |           |
| N2 Nitrogen  |               | 0.05          | 0.01   |           |
| C Carbon   |               | 0.08          | 0.02   |           |
| H2 Hydrogen  |               | 0.015         | 0.001  |           |
| Fe Iron  |               | 0.40          | 0.15   |           |
| O2 Oxygen  |               | 0.20          | 0.18   |           |
| OE Other Elements Each                               |               | 0.1           | 0.1    | Less than |
| OET Other Elements Total                             |               | 0.4           | 0.4    | Less than |
| Ti Titanium  | BAL           |               | BAL    |           |
| Al Aluminum  | 5.5           | 6.75          | 6.34   |           |
| V Vanadium   | 3.5           | 4.5           | 4.1    |           |

Conforms to requirements.

Comment: METHOD: XRF, COMBUSTION, IGF.

Signed for and on behalf of Exova

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MCG PAGE: 2 of 2



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ACCREDITED TO ISO/IEC 17025  
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David Tallini, Quality Manager  
EXOVA

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