



Reading Alloys, Inc.

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THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION.



Product Specification

Title: Aluminum - Molybdenum - Tin - Titanium - Zirconium (Ti-6246)		Specification No. RAI-0025 Revision: 5
Department: Thermite	<i>Approved & Released Product Specification</i>	Implementation Date: 05/24/2005
Area:		
Type of Document: RAI Product Specification		Review Period - 365 Days

Product Information:

Category: Finished Goods	Product Line: Thermite Line 2
Part Number: 31109	Revision: 1
Description: 33 Al - 33 Mo - 11 Sn - 22 Zr	
Customer Part #:	Engineer: James Robison

1.0 Product Specification:

ELEMENT	SPECIFICATION
Aluminum	28.5-31%
Molybdenum	33-35.5%
Tin	9-11.5%
Titanium	3-4%
Zirconium	19.5-22%
Boron	0.003% Max
Carbon	0.10% Max
Iron	0.45% Max
Magnesium	0.25% Max
Phosphorus	0.035% Max
Silicon	0.35% Max
Sulfur	0.024% Max

Hydrogen	0.03% Max
Nitrogen	0.04% Max
* Oxygen	0.15% Max

Material Size:

3/8 Inch by 20 Mesh (US Standard Sieve Designation)
 + 3/8 Inch = 2% Maximum
 3/8 Inch x 20 Mesh = 96% Minimum
 - 20 Mesh = 2% Maximum

Other sizes available on request.

2.0 Special Requirements:

A. Inspection:

All material is 100% visually inspected to verify metal is clean and free of debris.

B. Packaging:

1000 pounds in open-head steel drums (55 gallon)
 Other packaging on request.

* Indicates change from last revision

3.0 Safety & Environmental Information:

4.0 Associated Documents:

Associated Quality System Documents - None

Click to Open an Associated Document

5.0 Document Revision History:

Revision: 5	Date Created: 09/18/2008 Date of Last Revision: 09/24/2008	Last Approval Date: 09/24/2008
Document Author: Beth Maiocchi		

6.0 Reason for Change:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	5/13/93
2	N/A	Change Carbon to 0.10%	7/3/97
3	N/A	Change to Lotus Notes Format	12/10/98
4	Sect 8	Additional Signatory	6/9/99
5	1	Changed requirement for O; revised format	above

7 Notification List:

8.0 Approvals:

First Approver's Signature

Name: James Robison/PA-ROB/Ametek
Title: Director of Technology

Sep 24, 2008 04:01:30 PM EDT - Approved by: James Robison/PA-ROB/Ametek

Document History Section