



Reading Alloys, Inc.

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THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION.



Product Specification

Title: 45 Aluminum - 55 Molybdenum - Titanium		Specification No. RAI-0007 Revision: 6
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: 30401	Revision: 1
Description: 45 Al - 55 Mo - Ti	
Customer Part #:	Engineer: James Robison

1.0 Product Specification:

ELEMENT	SPECIFICATION
Aluminum	40-45%
Molybdenum	50-55%
Titanium	2-5%
Boron	0.005% Max
Carbon	0.10% Max
Chromium	0.05% Max
Copper	0.05% Max
Iron	0.40% Max
Magnesium	0.05% Max
Manganese	0.05% Max
Nickel	0.05% Max
Phosphorus	0.015% Max

Silicon	0.30% Max
Sulfur	0.02% Max
Tungsten	0.04% Max
Vanadium	0.05% Max
* Hydrogen	0.03% Max
Nitrogen	0.03% Max
Oxygen	0.10% Max

Material Size:

3/8 Inch by 20 Mesh (US Standard Sieve Designation)
 Minus 20 Mesh (US Standard Sieve Designation)
 Minus 50 Mesh (US Standard Sieve Designation)

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:

MSDS-005

4.0 Associated Documents:

Associated Quality System Documents - None

[Click to Open an Associated Document](#)

5.0 Document Revision History:

Revision: 6	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	4/1/71
2	N/A	Unknown	6/18/72
3	N/A	Unknown	11/20/92
4	N/A	Change to Lotus Notes Format	12/10/98
5	Sect 8	Added Bob Hyland as Signatory	6/7/99
6	1	Added requirement for H, 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 03:35:37 PM EDT - Approved by: James Robison/PA-ROB/Ametek

Document History Section