



Reading Alloys, Inc.

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Specification

Title: 35 Aluminum - 65 Vanadium		Specification No . RAI-0010 Revision: 9
Department: Thermite	<i>Approved & Released Specification</i>	Implementation Date : 10/20/2011
Area: Thermite		
Type of Document : RAI Product Specification		Review Period - 365 Days

Product Information :

Category: Finished Goods	Product Line: Thermite Line 1
Part Number: 30502	Revision: 1
Description: 35 Al - 65 V	
Customer Part #:	Engineer: James Robison

1.0 Product Specification:

ELEMENT	SPECIFICATION
Aluminum	34-39%
Vanadium	60-65%
Boron	0.003% Max
Carbon	0.10% Max
Chromium	0.10% Max
Copper	0.05% Max
* Iron	0.4% Max
Lead	0.01% Max
Magnesium	0.01% Max
Manganese	0.05% Max
Molybdenum	0.15% Max
Nickel	0.05% Max

* Phosphorus	0.03% Max
Silicon	0.30% Max
Sulfur	0.010% Max
Tungsten	0.015% Max
Hydrogen	0.010% Max
Nitrogen	0.05% Max
Oxygen	0.10% Max

Material Size:

1/4 Inch by 70 Mesh
 Minus 5/16 inch = 100% (US Standard Sieve Designation)
 Plus 70 Mesh = 98% Minimum
 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.
 All material is 100% blacklight and 100% x-ray inspected.

B. Packaging:

1000 pound open-head steel drums (55 gallon)
 Other packaging available on request.

* Indicates change from last revision

3.0 Safety & Environmental Information:

MSDS-007

4.0 Associated Documents:

Associated Quality System Documents - None

[Click to Open an Associated Document](#)

5.0 Document Revision History:

Revision: 9	Date Created: 09/18/2008 Date of Last Revision: 10/20/2011	Last Approval Date: 10/20/2011
Document Author: Beth Maiocchi	Document Manager: Colin McCracken	

6.0 Reason for Change:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	12/01/80
2	N/A	Unknown	08/15/89
3	N/A	Unknown	12/17/92
4	N/A	Unknown	05/13/93
5	N/A	Change to Lotus Notes Format	12/10/98

6	Sect 8	Added Bob Hyland as Signatory	06/07/99
7	1	Changed requirement for Mg and O	05/24/05
8	1	Changed C, Fe, S, & O requirement. Added Pb requirement	09/18/07
9	1	Changed Fe and P to more closely reflect major Ti industry customer requirements	above

7 Notification List:

PA-ROB-RAI Spec Notification

8.0 Approvals:

First Approver's Signature

Name: Colin McCracken/PA-ROB/Ametek
Title: Director of Technology

Oct 20, 2011 11:19:13 AM EDT - Approved by: Colin McCracken/PA-ROB/Ametek

Document History Section