



Reading Alloys, Inc.

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THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION.



Product Specification

Title: 25 Aluminum - 75 Vanadium with Hi Nitrogen		Specification No.: RAI-0013 Revision: 6
Department: Thermite	Approved & Released Product Specification	Implementation Date: 03/27/2001
Area:		
Type of Document: RAI Product Specification		Review Period - 365 Days

Product Information:

Category: Finished Goods	Product Line: Thermite Line 1
Part Number: 30508	Revision: 1
Description: 25 Al - 75 V	
Customer Part #:	Engineer: James Robison

1.0 Product Specification:

ELEMENT	SPECIFICATION
*Aluminum	22-27%
Vanadium	72-77%
Boron	0.003% Max
Chromium	0.10% Max
Copper	0.05% Max
Iron	0.45% Max
Magnesium	0.25% Max
Manganese	0.05% Max
Molybdenum	0.15% Max
Nickel	0.05% Max
Phosphorus	0.035% Max
Silicon	0.30% Max
Sulfur	0.024% Max
Tungsten	0.015% Max

	High N	High N & C
	Type 1	Type 2
*Nitrogen	0.5-1.1%	0.6-0.9%
*Carbon	0.15% Max	0.6-0.9%
	High N & C	High N & C
	(2-1)	(1-2)
	Type 3	Type 4
*Nitrogen	0.6-0.9%	0.25-0.45%
*Carbon	0.25-0.45%	0.6-0.9%

Hydrogen	0.010% Max
Oxygen	0.20% Max

Additional Chemistry available upon request

2.0 Special Requirements:

2.01 Size:

- 1/4 Inch by 70 Mesh (US Standard Sieve Designation)
- 2% Max Oversize to 5/16 Inch
- 2% Max Minus 70 Mesh

Other sizes available on request

2.02 Inspection:

Whitelight, Blacklight, and Fluoroscope

2.03 Packaging:

1000 pounds in open-head steel 55 gallon drums

* indicated 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: 6	Date Created: 09/18/2008 Date of Last Revision: 09/24/2008	Last Approval Date: 09/24/2008
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Document Author: Beth Maiocchi	
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6.0 Reason for Change:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	
2	N/A	Change to Lotus Notes Format	
3	8	Added new signatory	
4	5	Change document manager	
5	1	Changed Oxygen Spec	
6	1	Include all types High Nitrogen	

7 Notification List:

8.0 Approvals:

First Approver's Signature

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

Sep 24, 2008 03:44:15 PM EDT - Approved by: James Robison/PA-ROB/Ametek

Document History Section