



**Reading Alloys, Inc.**

220 Old West Penn Ave. Robesonia, PA 19551

**THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION.**



## Product Specification

<b>Title:</b> 60 Aluminum - 40 Vanadium		<b>Specification No.</b> RAI-0012 <b>Revision:</b> 7
<b>Department:</b> Thermite	<b>Approved &amp; Released Product Specification</b>	<b>Implementation Date:</b> 05/18/2000
<b>Area:</b>		
<b>Type of Document:</b> RAI Product Specification		<b>Review Period - 365 Days</b>

### Product Information:

<b>Category:</b> Finished Goods	<b>Product Line:</b> Thermite Line 1
<b>Part Number:</b> 30507	<b>Revision:</b> 1
<b>Description:</b> 60 Al - 40 V	
<b>Customer Part #:</b>	<b>Engineer:</b> James Robison

### 1.0 Product Specification:

ELEMENT	SPECIFICATION
Aluminum	54-60%
Vanadium	40-45%
Boron	0.003% Max
Carbon	0.10% Max
Chromium	0.20% Max
Copper	0.10% Max
Iron	0.50% Max
Magnesium	0.05% Max
Manganese	0.05% Max
Molybdenum	0.30% Max
Nickel	0.05% Max
Phosphorus	0.02% Max

Silicon	0.50% Max
Sulfur	0.03% Max
Tungsten	0.05% Max
Hydrogen	0.015% Max
Nitrogen	0.05% Max
Oxygen	0.10% Max

**2.0 Special Requirements:**

**2.01 Size:**

- 1/4 Inch by 50 Mesh (US Standard Sieve Designation)
- 98% Min Minus 1/4 inch
- 2% Max Oversize to 5/16 inch
- 2% Max Minus 50 Mesh Other sizes available on request.

**2.02 Inspection:**

100% Visual - Whitelight, Blacklight, and Fluoroscope

**2.03 Packaging:**

800 pound open-head steel drums (55 gallon)  
Other packaging available 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:**

<b>Revision:</b> 7	<b>Date Created:</b> 09/18/2008 <b>Date of Last Revision:</b> 09/24/2008	<b>Last Approval Date:</b> 09/24/2008
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<b>Document Author:</b> 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	6/18/79
2	N/A	Unknown	8/15/89
3	N/A	Unknown	11/20/92
4	N/A	Unknown	5/13/93

5	N/A	Change to Lotus Notes Format	6/7/99
6	1	Changed H Spec from 0.005 to 0.015 Max Changed O typical from 0.007 to 0.07	12/22/99
7	1	Removed Typical Analysis	above

**7 Notification List:**

**8.0 Approvals:**

**First Approver's Signature**

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

Sep 24, 2008 03:42:38 PM EDT - Approved by: James Robison/PA-ROB/Ametek

**Document History Section**