



*Reading Alloys, Inc.*

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THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION.



## Product Specification

<b>Title:</b> Aluminum - Niobium - Silicon		<b>Specification No.</b> RAI-0085 <b>Revision:</b> 3
<b>Department:</b> Thermite	<i>Approved &amp; Released Product Specification</i>	<b>Implementation Date:</b> 06/15/2005
<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 2
<b>Part Number:</b> 30105	<b>Revision:</b> 1
<b>Description:</b> 46 Al - 54 Nb - Si	
<b>Customer Part #:</b>	<b>Engineer:</b> James Robison

### 1.0 Product Specification:

ELEMENT	SPECIFICATION
Aluminum	44 - 48%
Niobium	50 - 54%
Silicon	3% Max
* Titanium	2% Max
Carbon	0.10% Max
Iron	0.35% Max
Sulfur	0.02% Max
Nitrogen	0.10% Max
Oxygen	0.20% Max

#### Material Size:

Minus 50 Mesh = 100% (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:

Standard packaging is 1000 pounds in open-head steel drums (55 gallon)  
Other packaging is 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> 3	<b>Date Created:</b> 09/19/2008 <b>Date of Last Revision:</b> 09/24/2008	<b>Last Approval Date:</b> 09/24/2008
<b>Document Author:</b> Beth Maiocchi		

## 6.0 Reason for Change:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	12/10/98
2	Sect 8	Additional Signatory	6/9/99
3	1	Added requirement for Titanium (Ti)	above

## 7 Notification List:

## 8.0 Approvals:

### First Approver's Signature

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

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

## Document History Section