



**Reading Alloys, Inc.**

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



## Product Specification

<b>Title:</b> Nickel Niobium Powder (H.P.)		<b>Specification No.</b> RAI-0003 <b>Revision:</b> 6
<b>Department:</b> Thermite	<b>Approved &amp; Released Product Specification</b>	<b>Implementation Date:</b> 01/17/2001
<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> 30005	<b>Revision:</b> 1
<b>Description:</b> Nickel Niobium Powder	
<b>Customer Part #:</b>	<b>Engineer:</b> James Robison

### 1.0 Product Specification:

ELEMENT	SPECIFICATION
Niobium	60% Minimum
Nickel	Balance
Aluminum	1.50% Max
Carbon	0.10% Max
Lead	0.02% Max
Manganese	0.40% Max
Phosphorus	0.03% Max
Selenium	0.005% Max
Silicon	0.50% Max
Sulfur	0.01% Max
Tantalum	0.75% Max
Tin	0.02% Max

Titanium	0.30% Max
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\*Additional Chemistry available upon request

**2.0 Special Requirements:**

**2.01 Size:**

Minus 30 Mesh (US Standard Sieve Designation)  
Other sizes available on request.

**2.02 Packaging:**

500 pound open-head steel drums (17 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> 6	<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	12/1/80
2	N/A	Unknown	5/1/90
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	Sect 1	Removed Typical	above

**7 Notification List:**

**8.0 Approvals:**

**First Approver's Signature**

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

Sep 24, 2008 03:29:17 PM EDT - Approved by: James Robison/PA-ROB/Ametek

**Document History Section**