



Reading Alloys, Inc.

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THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION.



Product Specification

Title: Ferro - Niobium (Vacuum Grade)		Specification No. RAI-0005 Revision: 6
Department: Thermite	Approved & Released Product Specification	Implementation Date: 01/17/2001
Area:		
Type of Document: RAI Product Specification		Review Period - 365 Days

Product Information:

Category: Finished goods	Product Line: Thermite Line 2
Part Number: 30202	Revision: 1
Description: Ferro Niobium V/G	
Customer Part #:	Engineer: James Robison

1.0 Product Specification:

ELEMENT	SPECIFICATION
Niobium	60% Minimum
Iron	Balance
Aluminum	1.5% Max
Carbon	0.10% Max
Chromium	0.10% Max
Copper	0.10% Max
Manganese	0.10% Max
Nickel	0.25% Max
Phosphorus	0.03% Max
Silicon	0.20% Max
Sulfur	0.015% Max
Tantalum	0.20% Max

Nitrogen	0.02% Max
Oxygen	0.15% Max

*Additional Chemistry available upon request

2.0 Special Requirements:

2.01 Size:

2 inch by down. 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:

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	6/18/79
2	N/A	Change in chemical requirements & Spec number	5/1/90
3	N/A	Change in reportable elements & Concentration	4/15/97
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 03:33:20 PM EDT - Approved by: James Robison/PA-ROB/Ametek

Uncontrolled Document

Document History Section