



Reading Alloys, Inc.

220 Old West Penn Ave. Robesonia, PA 19551

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Product Specification

Title: 40 Nickel - 60 Vanadium		Specification No. RAI-0022 Revision: 5
Department: Thermite	Approved & Released Product Specification	Implementation Date: 01/07/2009
Area:		
Type of Document: RAI Product Specification		Review Period - 365 Days

Product Information:

Category: Finished goods	Product Line: Thermite Line 2
Part Number: 30903	Revision: 1
Description: 40 Ni - 60 V	
Customer Part #:	Engineer: James Robison

1.0 Product Specification:

ELEMENT	SPECIFICATION
Nickel (Ni)	35% Minimum
Vanadium (V)	60% Minimum
* Aluminum (Al)	1.50% Max
* Arsenic (As)	0.004% Max
Carbon (C)	0.05% Max
Chromium (Cr)	0.04% Max
Iron (Fe)	0.50% Max
Lead (Pb)	0.001% Max
* Molybdenum (Mo)	0.04% Max
Selenium (Se)	0.002% Max
Silicon (Si)	0.30% Max
Silver (Ag)	0.001% Max

* Sulfur (S)	0.03% Max
* Tin (Sn)	0.003% Max
Nitrogen (N)	0.05% Max
Oxygen (O)	0.40% Max

2.0 Special Requirements:

2.01 Size:

2 inches by down. Other sizes available on request.

2.02 Inspection:

Visual

2.03 Packaging:

500 pounds in 17 gallon open-head steel drums.

* 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: 5	Date Created: 09/18/2008 Date of Last Revision: 01/07/2009	Last Approval Date: 01/07/2009
Document Author: Beth Maiocchi		

6.0 Reason for Change:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	11/20/92
2	N/A	Change to Lotus Notes Format	12/10/98
3	Section 8	Additional Signatory	6/7/99
4	Section 1	Removed Typical	6/20/02
5	Section 1	Revised requirements for Al, S, Sn; added requirement for As and Mo	above

7 Notification List:

PA-ROB-RAI Spec Notification
PA-ROB-Quality Group

8.0 Approvals:

First Approver's Signature

Name: Wayne Vaupel/PA-ROB/Ametek
Title: Quality Manager

Jan 5, 2009 01:26:27 PM EST - Approved by: Wayne Vaupel/PA-ROB/Ametek

Second Approver's Signature

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

Jan 5, 2009 10:32:20 AM EST - Approved by: James Robison/PA-ROB/Ametek

Third Approver's Signature

Name: Mike Royer/PA-ROB/Ametek
Title: Director of Manufacturing

Jan 7, 2009 08:18:47 AM EST - Approved by: Mike Royer/PA-ROB/Ametek

Fourth Approver's Signature

Name: Graham Walker/PA-ROB/Ametek
Title: Vice President Sales & Marketing

Jan 7, 2009 10:13:51 AM EST - Approved by: Graham Walker/PA-ROB/Ametek

Document History Section