



Reading Alloys Inc

PO Box 53 Robesonia, PA 19551



Specification Form

Specification Form Title: Ti-5553 Master Alloy		Specification No. RAI-0132 Revision: 1
Category: Master Alloys Product Code: 31002 Rev: 1 Part Description: Al-Mo-V-Cr	Product Line: Ti-5553 Master Alloy Responsible Engineer: N/A	
Department: Thermitite Area: Line #2	Approved & Released Specification Form	Implementation Date: 08/17/2006
Type of Document: RAI Product Specification		Retention Period: None

1.0 Product Specification:

Chemical Requirements:

ELEMENT	SPECIFICATION
Aluminum	Balance
Chromium	15.75 - 17.75%
Molybdenum	28 - 33%
Vanadium	27.25 - 29.25%
Iron	1 - 2%
Boron	0.003% Max
Carbon	0.10% Max
Phosphorus	0.035% Max
Nickel	0.15% Max
Silicon	0.35% Max
Sulfur	0.02% Max
Titanium	0.50% Max
Zirconium	0.4% Max
Nitrogen	0.02% Max
Oxygen	0.15% Max

Material Size: (US Standard Sieve Designation)

- +5/16 Inch = 1% Maximum
- 5/16 Inch x 70 Mesh = Balance
- 70 Mesh = 2% Maximum

Other sizes available on request.

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2.0 Special Requirements:

A. Inspection

The alloy shall be 100% visually inspected under whitelight and ultraviolet light to eliminate slag and other foreign material.

B. Packaging

1000 pounds in 55 gallon open-head steel drums.

3.0 Associated Documents:

4.0 Safety Information:

MSDS-070

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5.0 Revision History:

6.0 Reason for Change:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	above

Specification Author: Beth Maiocchi	Specification Manager: Robert Heckman
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7.0 Electronic Notification List: Quality Department, RAI Spec Notification

8.0 Approvals:

First Approver's Signature

Name: Robert Heckman Approved - 07/27/2006 by Robert Heckman
Title: Quality Manager

Second Approver's Signature

Name: James Robison Approved - 07/27/2006 by James Robison
Title: Director - Technology

Third Approver's Signature

Name: Graham P. Walker Approved - 08/14/2006 by Graham P. Walker
Title: Executive Vice President

Fourth Approver's Signature

Name: Mike Royer Approved - 08/17/2006 by Mike Royer
Title: Plant Manager - Aerospace Products