



# MASTER ALLOYS



## VANADIUM-ALUMINUM MASTER ALLOYS

Standard Specifications	65% Vanadium--Aluminum	85% Vanadium--Aluminum	75% Vanadium--Aluminum	75% Vanadium--Aluminum with Nitrogen/Carbon	50% Vanadium--Aluminum	40% Vanadium--Aluminum
<b>Vanadium</b>	<b>60-65%</b>	<b>82-85%</b>	<b>73-76%</b>	<b>72-77%</b>	<b>49-54%</b>	<b>38-43%</b>
<b>Aluminum</b>	<b>34-39%</b>	<b>13-16%</b>	<b>22-27%</b>	<b>22-27%</b>	<b>46-51%</b>	<b>57-62%</b>
Boron	0.003% max.	0.003% max.	0.005% max.	----	0.005% max.	0.005% max.
Carbon	0.15% max.	0.04% max.	0.15% max.	<b>0-0.6%</b>	0.15% max.	0.15% max.
Chromium	0.05% max.	0.10% max.	0.05% max.	0.05% max.	0.05% max.	0.05% max.
Copper	0.05% max.	0.05% max.	0.05% max.	0.05% max.	0.05% max.	0.05% max.
Hydrogen	0.010% max.	0.01% max.	----	----	----	----
Iron	0.30% max.	0.50% max.	0.30% max.	0.30% max.	0.30% max.	0.30% max.
Magnesium	0.015% max.	0.10% max.	----	----	----	----
Manganese	0.05% max.	0.05% max.	0.05% max.	0.05% max.	0.05% max.	0.05% max.
Molybdenum	0.10% max.	0.10% max.	0.10% max.	0.10% max.	0.10% max.	0.10% max.
Nickel	0.05% max.	0.05% max.	0.05% max.	0.05% max.	0.05% max.	0.05% max.
Nitrogen	0.040% max.	0.05% max.	0.05% max.	<b>0-0.6%</b>	0.05% max.	0.05% max.
Oxygen	0.10% max.	0.24% max.	0.20% max.	0.20% max.	0.10% max.	0.10% max.
Phosphorus	0.010% max.	0.03% max.	0.03% max.	0.03% max.	0.03% max.	0.03% max.
Silicon	0.30% max.	0.35% max.	0.35% max.	0.35% max.	0.35% max.	0.35% max.
Sulfur	0.010% max.	0.02% max.	0.025% max.	0.025% max.	0.025% max.	0.025% max.
Tungsten	0.015% max.	0.015% max.	----	----	----	----
<b>Nominal Size</b>	<b>¼ in. x U.S. No. 70 (6.25 mm x 212 µm)</b>	<b>U.S. No. 8 x U.S. No. 50 (2.36 mm x 300 µm)</b>	<b>¼ in. x U.S. No. 70 (6.25 mm x 212 µm)</b>	<b>¼ in. x U.S. No. 70 (6.25 mm x 212 µm)</b>	<b>¼ in. x U.S. No. 70 (6.25 mm x 212 µm)</b>	<b>¼ in. x U.S. No. 70 (6.25 mm x 212 µm)</b>

**Inspection:** 100% White-Light, Black-Light, and X-Ray Inspection.

**Packaging:** 1,000 lbs. per 55-Gallon Drum. Other Packaging on Request.

**Other Product Compositions:** On Request

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