



# Vanadium



## → FeNiMoly<sup>®</sup>

### AMG Vanadium ADVANTAGE

FeNiMoly<sup>®</sup> from AMG Vanadium affords significant cost savings over traditional nickel and molybdenum alloys.

FeNiMoly<sup>®</sup> is a co-product of AMG Vanadium's ferrovanadium production and is available in ingots or our easy-to-handle pigs and shot, which are refined to lower their phosphorus and sulfur content. Our refined alloy is provided with a certified analysis, it is not a scrap.

But more importantly, you can realize significant savings over traditional Ni and Mo alloys, with no premiums added to LME values for nickel or higher costs for ferromolybdenum.



AMG Vanadium, Inc  
Environmental Responsibility



## Products/Specs

As a continuously produced co-product of AMG Vanadium's "24/7" ferrovanadium production, a steady reliable supply of FeNiMoly® is guaranteed.

### Ingots

- Ideal for metal processors and steel mills aiming to produce NiMo bearing stainless steels, such as: Type 316 (10-14% Ni and 2-3% Mo); Type 317 (11-15% Ni and 2-4% Mo); and Types T-318 and 319 with similar Nickel and Molybdenum contents.
- Large size product for furnace additions with reliable nickel and molybdenum contents.
- Phosphorus is over 1% and sulfur is up to 10%.
- Size: approximately 1,700 lbs, approximately 42" long X 30" wide X 8" thick.
- Certified analyses are provided.

### Refined Forms

- Refined to lower phosphorus and sulfur levels.
- Both are ideal for producers of stainless steels and low-alloy steels, such as: AISI 4320 (1.65-2.00% Ni and 0.20-0.30% Mo) or AISI 8620, 8630 and 8720 (0.40-0.70% Ni and 0.15-0.20% Mo).
- Certified analyses are provided.
- No latent tramp contaminants.

### Pigs

- Readily applied for furnace, treatment station or ladle additions.
- Size: 15 lbs, 13" long X 3.5" wide X 1.5" thick.
- Will package to customer requirements.
- Shot blasted to a clean surface and shipped in a new steel drum container with 1,500 lbs of product.

### Shot

- Designed for treatment station or ladle additions.
- Packaged in supersacks containing 2,000 lbs of product.

## The FeNiMoly® Advantage

Major international steel mills use AMG Vanadium's FeNiMoly® pigs and shot in NiMo stainless steels and AISI 4300, 8600 and 8700 series steels for special bar quality applications.

FeNiMoly® provides a **cost savings** through its replacement of nickel products, FeMo and Moly Oxide. FeNiMoly® yields recoveries of virtually 100%.

FeNiMoly® is reliable as a back charge or ladle addition. Its chemistry is very accurate and its density is an advantage.

## CHEMISTRY

A typical chemistry for pigs and shot is depicted below. Heat size ranges from 15,000 to 17,000 lbs.

Fe	30 - 45%
Ni	38 - 53%
Mo	10 - 18%

*NOTE: Please direct product and commercial questions to Jim Carter.*

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