



Vanadium



→ FeNiMoly[®]

AMG VANADIUM ADVANTAGE

FeNiMoly[®] from AMG Vanadium affords significant cost savings over traditional nickel and molybdenum alloys.

FeNiMoly[®] 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 and no higher costs for ferromolybdenum.

METGREEN[®]

AMG Vanadium
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 analysis 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 analysis 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.

Phone: 1-740-435-4641
1-800-762-2323 x4641
Fax: 740-432-5937
Email: jcarter@amg-v.com
Mobile: 614-804-0731



Phone: 1-800-318-8662 or
1-740-435-4600
Fax: 740-432-5937
www.amg-v.com

We are a proud member of the AMG group of companies – a global leader in materials for advanced industrial applications.