

ADVANTAGE

Metal Powders, Inc.

ISO 9001: 2008 Certified



BLENDER 10
MAX 80000 LB

INDEPENDENTLY OWNED
ESTABLISHED MARCH 2001

VIRGIN AND REMILL METAL POWDER BLENDS

Ferrous Metal Powder Blends • Remill Metal Powder Blends
Non-Ferrous Metal Powder Blends • Virgin Metal Powders
Buyers & Processors of Green Scrap Parts & Powder



AMP ADVANTAGES

- We're viewed by Quebec Metal Powders (QMP) as a sister company, with a great working relationship and pricing.
- AMP has 10 blenders, ranging from 5 lbs. to 60,000 lbs.
- Benefit of larger blends:
 - Longer runs without a lot of changes (die setters are happier).
 - Willing to make larger lots and deliver over 3-4 weeks. (only invoice/delivery)
 - Tighter DC tolerances. We will lab test to dial in DC before making production lot.
- Warehouse and distribute Royal Metal Powder's products. Can buy our inventory through Royal or from AMP.
- We offer virgin blends, re-mill and a mixture of the two.
- Two material degreed employees from Penn State on staff.
- We're constantly looking to improve material properties. We've developed a high green strength additive.
- We have 3 lab techs along with a well-equipped lab that includes a Leco spectrometer.
- We work 6am to 10pm with a live body to assist you during those times.
- Our production manager has over 20 years heat treating experience and is willing to help customers on the backend of the PM process.
- AMP keeps on stock an average of 1,250,000 lbs. of various iron powder, 50,000 lbs. of additives and over 1,000,000 lbs. of remill stock in inventory.
- Fast, friendly service. Typical turnaround is 2-3 days; can do much less.
- Private, locally owned.
- Total of 17 employees that ship over 30,000,000 lbs. of powder/year.
- We use a powder inverter, not dumper. Keeps contamination possibilities very low.
- We screen all lots as they exit the blenders; little to no chance of foreign materials in mix.

OUR COMPANY

Advantage Metal Powders, Inc. supplies quality virgin and remill powder metal mixes, at a competitive price, with on-time delivery. Independently owned and operated, AMP has over 25 years of experience in material processing and blending. We deliver both Virgin and Remill powder blends for the automotive and non-automotive markets. AMP is capable of providing powder blends from 5 lb. to 60,000 lb. lots.

Our manufacturing and warehouse complex is situated on over seven acres of land in Ridgway, Pennsylvania, with our building and equipment housing the latest in technology. Advantage Metal Powders is easily accessible, located at the intersection of Rt. 948 and 219, three miles south of Ridgway, in Elk County, PA.

Our customers can depend on AMP's dedication in building a strong and honest working relationship. Our goal is to supply quality powder metal blends at competitive prices, with on-time delivery.

We are continually striving to improve our company each and every day.

QUALITY & CERTIFICATIONS

It is the quality policy of Advantage Metal Powders, Inc. to supply quality powder metal mixes, at a competitive price, with on-time delivery. AMP strives for zero defects through training and continuous improvements of our processes.

*Advantage Metal Powders is
ISO 9001: 2008 Certified.*

OUR MISSION

Advantage Metal Powders, Inc. strives for zero defects through training and continuous improvements of our processes. We will exceed our customers' expectations.

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(814-77-BLEND)

OUR PRODUCTS

FERROUS METAL POWDER BLENDS

AMP offers all combinations of iron, pre-alloyed iron, copper, nickel, graphite, lubricants, and other additives to meet any MPIF Standard 35 Material Specification.

REMILL METAL POWDER BLENDS

AMP takes green scrap (purchased by AMP or the customer's product) and processes it back into six different MPIF STD 35 grades: F-0005, F-0008, FC-0205, FC-0208, FN-0205, and FN-0208.

The process consists of:

- Grinding the green parts into powder
- Screening the powder to remove any oversize
- Magnetically separating the powder (removing copper)
- Blend material
- Test properties and composition of blend
- Adjusting composition into one of the six MPIF grades
- Retesting all properties and creating a certificate of analysis

NON-FERROUS METAL POWDER BLENDS

AMP can blend copper, tin, graphite, and lubricants to make custom bronze premixes. AMP also warehouses and distributes the full line of Royal Metal Powders products. Royal offers a wide variety of Copper, Brass, Premix, and Pre-Alloy Bronze, Nickel/Silver, and Oxide Reduced Copper Powders.

VIRGIN METAL POWDER BLENDS

AMP keeps in stock over 20 different virgin iron and pre-alloyed iron powders, multiple types of Copper, Nickel, Graphite, and Lubricants. At any given time, there are over 2 million pounds of iron powder and additives on our floor. The majority of the virgin powders that we keep in stock are from Quebec Metals Powders (QMP).

ADDITIONAL PRODUCTS

In addition to our primary powder blends, AMP also has products to support the Welding, Environmental Remediation, Torch Cutting, Metal Bonded Diamond Tool, and Friction Pad Industries.



OUR CAPABILITIES

- Over 29,000 Square Feet of Manufacturing Facilities
- Complete Custom Virgin Powder Blending
- Full Remill Powder Product Line
- Custom Remill/Virgin Powder Blends
- Process Customer Supplied Green Scrap
- Buyers of Green Scrap Parts & Powder
- State-of-the-Art Laboratory
- Warehousing Capabilities
- Testing and R&D Services Available
- Magnetic Separation
- Screening



OUR EQUIPMENT

Double Cone Blenders:

- 0 - 20 lb.
- 20 - 100 lb.
- 100 - 500 lb.
- 500 - 1,500 lb.
- 1,500 - 3,000 lb.
- 3,000 - 7,500 lb.
- 5,000 - 10,000 lb.
- 7,500 - 18,000 lb.
- 18,000 - 45,000 lb.
- 30,000 - 60,000 lb.

Two Green Scrap Grinders:

- One smaller one for stainless steel, bronze, brass, and copper.
- One for truckload quantities, mostly iron.

One Magnetic Powder Separator

Four Powder Screeners

- Two Rotex Rectangle
- Two Sweco Round

One Bulk Powder Inverter

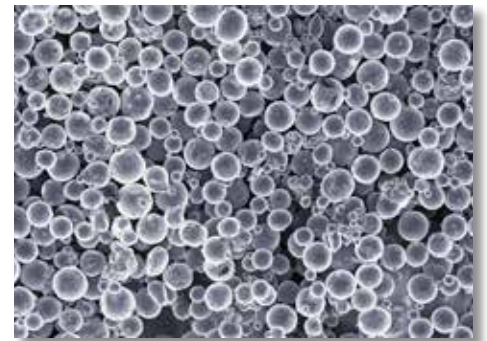
One Powder Drum/Bulk Dumper



STATE-OF-THE-ART LABORATORY

Laboratory Equipment:

- W.S. Tyler RX-29 Sieves
- Leco GAS500A Spectrometer
- Tinius Olsen Super L Universal Testing Machine
- TRS Die Set
- Green Strength Tester
- 2,100 degree F. Test Furnace
- Leco CS-200 Carbon/Sulfur Determinator
- Leco LR Hardness Tester
- Three Sample Blenders (up to 100 lbs.)
- Hall Flow Funnel
- Apparent Density Cup



Every lot of powder, whether it be 5 lbs. or 60,000 lbs., gets tested and shipped with a Certificate of Analysis (C of A) to assure the blend meets the customer's specifications. The properties we test for include Apparent Density, Flow, Sieve, Compressibility, Spring Back, Green Strength, Sintered Dimensional Change (with or without Hydrogen), Hardness, Transverse Rupture, and Chemical. After testing, a two-pound sample of the blend is retained for one year.