



Metalcasting Products



AMERICAN COLLOID COMPANY



Blending • Mining • Specialty Sands • Binder Systems • Briquetting • Nonferrous Flux

Unequaled Service and Support Since 1926

American Colloid Company, a wholly owned subsidiary of AMCOL International, manufactures specialty products for use in many markets, including foundry, construction, coatings, refractory, cat litter, beverage, and pharmaceuticals. Our Metalcasting Products Group produces blended mineral binders containing sodium and calcium bentonites and organic additives sold under the trade name Additrol®. Castings produced from these materials serve automotive, railroad and machine tool markets, among others.

AMCOL's market presence spans the globe. Our international network provides unequalled service and sales support to established and emerging markets with operations in Europe, North America, the Middle East, the Pacific Rim and Asia. AMCOL is the only supplier with global on-the-ground operations.

The Volclay® brand of bentonite products are recognized worldwide as the standard in many industries, the largest being the metalcasting industry. Volclay bentonite products are used for iron and steel casting production in green sand molding.

In February 2009, AMCOL International announced acquiring a 53% controlling interest of a chromite Hevi-Sand® mine in the Republic of South Africa. Since then the mining process has begun and construction of our state-of-the art Hevi-Sand processing plant will be completed with production to begin in May of 2010. While American Colloid Company has been involved in the distribution and sale of Hevi-Sand for many years, this new mining and production capability will bring product quality, supply and customer service to a new level. Chromite is a key ingredient in the production of heavy iron and steel castings. AMCOL, through its subsidiary American Colloid Company, is a leading supplier of chromite sand to U.S. foundries.

foundry

cat litter

construction

coating



With more than 80 years of industry leadership, American Colloid Company is serving the global marketplace with unmatched mineral reserves and a commitment to innovation, technology and service. Major emphasis is placed on new market opportunities, continuous quality improvement and research and development. Our goal is to further advance our technology in mining, processing, and product innovation throughout international markets.



An **AMCOL** Company

AMCOL International Corporation, produces and markets specialty mineral products used for industrial, environmental and consumer-related applications. The company operates in four industry segments, minerals, environmental, oilfield services and transportation. AMCOL's common stock is traded on the New York Stock Exchange under the symbol "ACO". The company's web site is www.amcol.com.

Products

Additrol® is a custom additive blend of western and/or southern bentonites and organic additives to meet the needs of both ferrous and nonferrous casting producers.

Volclay®, a high-quality natural sodium bentonite recognized by the world over as the metalcasting standard, is used exclusively for iron and steel casting production in green sand molding and for nonferrous production where extra duty is required.

Panther Creek®, a high-quality natural (calcium) bentonite, is used for green sand molding.

Hevi-Sand® (chromite sand) prevents metal penetration and can be used with most foundry binders in molds and cores.

Lovox™ Binder Systems are mineral and bio-based urethane sand binders. The removal of the phenol formaldehyde and aromatic solvents in the Part 1 and 2 resins yield mold and core binder systems that feature very low odor at mixing, significantly reduced VOC and HAP emissions, very good thermal stability, and excellent shake-out properties.

Cast-rite® (carbon sand) is used for making molds and cores. Its low-thermal expansion helps combat veining and its high conductivity prevents thermal shock.

Cellflo® (cellulose) improves flowability and shakeout of sand mixtures.

Flo-Carb® is a clean-burning carbonaceous material with low emissions and low smoke evolution.

Reeli-Klean® and **Maxiflux™** are two lines of high-performance melt treatments for aluminum, copper, zinc and other nonferrous alloys.

Cupola Alloy Bricks and **Briquettes** are available as standard Ferrosilicon (40%, 45%, 50% grades), Ferromanganese (66%), and Silicon Carbide 36%, 65% grades). Variations on these standard grades may be produced by request. Carsil products are custom formulated blends designed to meet specific operational needs.

GFN-1 and **RNC** fluxes are specialty ladle fluxes used for slag and inclusion control in gray and ductile iron.



BLENDING PLANTS

Albion, Michigan
Archbold, Ohio
Belvidere, Illinois
Chattanooga, Tennessee
Neenah, Wisconsin
Troy, Indiana
Waterloo, Iowa
York, Pennsylvania

SPECIALTY SAND PLANTS

Granite City, Illinois

BRIQUETTING PLANTS

New Haven, West Virginia

MINING OPERATIONS

Colony, Wyoming (2 Plants)
Gascoyne, North Dakota
Lovell, Wyoming
Sandy Ridge, Alabama

NON-FERROUS FLUX PLANT

Neenah, Wisconsin

TRANS LOADING FACILITIES

Oxford, Wisconsin
New Ulm, Wisconsin

TRANSPORTATION

Scottsbluff, Nebraska

SISTER OPERATION

Volclay De Mexico – Gomez
Palacio, DGO, Mexico

