



# HEVI-SAND<sup>®</sup>

FROM MINE FACE TO MOLD FACE

Foundry Chromite Sand

**AMCOL<sup>®</sup>**  
METALCASTING



*since 1927*



## Full Life-Cycle Support: From Mine Face to Mold Face

Hevi-Sand® Foundry Chromite Sand has more to offer than ordinary chromite sands. Hevi-Sand® is the only chromite brand that offers your business full life-cycle support, starting with our mine and ending in your mold. Combined with worldwide logistics and a global technical support team, these components work together to provide the highest-quality finished castings, saving your business both time and money.



As part of our commitment and service to our valued customers, AMCOL Metalcasting provides expertise in all areas of the foundry, including but not limited to;

- Methods and pattern design
- Sand systems
- Molding
- Painting and closing
- Pouring
- Melting
- Aftercast processes
- In-house training

## Hevi-Sand® Foundry Chromite Sand is used in foundries worldwide due to its unique combination of properties.

Hevi-Sand® is produced from high-grade foundry chromite which has been specially treated for use as a mold and core media in the production of quality castings. Hevi-Sand® is selectively mined from AMCOL's own sources, which are the richest and purest deposits in the world. This naturally occurring chrome ore undergoes several intensive cleaning and screening processes, unique to AMCOL, to enhance molding and casting properties. The combination of properties listed below generally results in a better surface finish and reduced likelihood of casting defects.

- High thermal conductivity
- Low thermal expansion
- Wettability resistance to molten steel
- Basic to neutral pH
- High melting point
- Broad sieve distribution



## Hevi-Sand® Features & Benefits

- Excellent chilling characteristics can eliminate the need for metal chills
- Chipping, grinding, and overall cleaning costs significantly reduced
- Reduction of gas defects due to minimal binder requirements along with excellent permeability
- Preferred aggregate for large iron, steel, copper base and high alloy castings due to high resistance to penetration
- Excellent peel characteristics and good surface finish due to superior resistance to metal oxides and slag
- Thermal stability properties reduce expansion defects and enhance overall dimensional accuracy

## Global Capabilities

AMCOL Metalcasting has been involved in the distribution and sale of Hevi-Sand® for many years. Our global mining and production capabilities 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 Metalcasting is a leading supplier of bentonite and chromite sand to foundries around the world.

A leader in the industry since 1927, AMCOL Metalcasting serves the global marketplace with unmatched mineral reserves and a strong commitment to innovation, technology and service. Major emphasis is placed on continuous quality improvement and research and development.



AMCOL's Hevi-Sand® mine and production plant - Republic of South Africa

## Continuous Technical Service and Support

As part of our service to our valued customers, our technical support team can be in the foundry to support and offer suggestions for specific castings or projects. The best way to understand foundry processes is to see it “first hand”. AMCOL Metalcasting works hand-in-hand with our customers to provide solutions and expertise for solving casting challenges faced by foundries today.

Our research and development team provides a strong backing to our drive towards customer-focused technical support, by continuing to conduct projects that expand the understanding of the properties and applications of Hevi-Sand®.

# AMCOL METALCASTING

American born. Internationally known.

With origins as American Colloid Company, AMCOL Metalcasting has been a leader in the metalcasting industry since 1927, providing unmatched mineral reserves and a commitment to innovation, technology, and service.



AMCOL Metalcasting  
2870 Forbs Avenue, Hoffman Estates, Illinois 60192 U.S.A .  
847.851.1500 800.426.5564 [www.amcolmetalcasting.com](http://www.amcolmetalcasting.com)



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