



 **HEVI-SAND[®]**

Foundry Grade Chromite Sand



Metalcasting


since 1927



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 ore in the Bushveld Complex in South Africa, the richest and purest deposits in the world. This naturally occurring chrome ore undergoes several intensive cleaning and screening processes 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

Full Traceable Quality with Full Tech Support

Hevi-Sand® Foundry Grade Chromite Sand has more to offer than ordinary chromite sands. Hevi-Sand® sets the world standard on quality control by providing full traceability through our quality control system on every bag. 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, MTI Metalcasting provides full technical support 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

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



MTI Partners with Glencore to Enhance Ongoing Quality and Consistency

MTI Metalcasting has partnered with Glencore to provide optimal quality and security for our customers. The partnership combines one of the world's largest miners and their top quality underground material with one of the world's premium foundry suppliers. The material is mined from the LG6 seam which results in the optimal balance of chemical properties and foundry performance. It is processed using thorough cleaning and acid washing operations before being screened and bagged. The quality control is independently monitored to form a critical component of the unsurpassed traceability.

Global Capabilities

MTI 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. MTI Metalcasting is a leading supplier of bentonite and chromite sand to foundries around the world. A leader in the industry since 1927, MTI 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 through both laboratory facilities in South Africa as well as at our headquarters in the USA.

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". MTI 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®.



MTI METALCASTING

American born. Internationally known.

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



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