



# Metalcasting

Solutions. Experience. Anywhere.



**Metalcasting**  
ACE

*since 1927*

# MTI Metalcasting

## Unequaled Service and Support Since 1927

MTI Metalcasting, with origins as American Colloid Company, is the leading provider of green sand molding materials for the metalcasting industry for over 86 years. Our high-quality green sand bonds, specialty sands, and resins, paired with a global network of technical support specialists, provides foundries with a unique solution packages unlike competing companies. Our unique ability to evaluate foundry operations, diagnose problems, and provide customized solutions provides added value above and beyond our quality products.

MTI Metalcasting solutions are used worldwide by both small and large-scale metalcasting foundries. Additionally, we provide a wide range of laboratory support capabilities to our customers that range from testing sand samples to providing tools that can be used to track trends in sand systems in order to help diagnose problems. With this elevated level of customer support, foundries are able to select the right materials that will enhance their specific operation and overall productivity.

### MTI Metalcasting provides;

- Green sand bond materials
- Specialty chromite sand
- Metal fluxing agents
- Complimentary laboratory services for customers
- Continuous service and technical support

## Total Solution Packages

MTI Metalcasting is dedicated to the success of our customers' operations. We work alongside our customers, combining high-quality solutions and extensive foundry expertise into total solution packages that allow customers to make smarter decisions and save money.

### Product Performance

MTI Metalcasting is always there for our customers with the very best in innovation and quality. We consistently deliver reliable solutions with unsurpassed performance.

### Service & Support

Our expert team understands that each operation is unique. We partner directly with foundries to formulate custom solutions that enhance process performance and casting production.




### Global Reach

With production, distribution, and sales channels that span the globe, MTI Metalcasting is able to meet the demands of foundries worldwide.



## Portfolio of Material Solutions

MTI Metalcasting provides high-quality, performance materials for both ferrous and non-ferrous foundries that include blended mineral binders containing bentonite and organic additives. Our solutions include;

- **Additrol®** is a custom blend of western and/or southern bentonites, as well as a variety of carbonaceous products, cereals, iron oxides, and starches. Additrol is blended to meet the needs of both ferrous and non-ferrous applications. 
- **Volclay®** DC-2 (Western) bentonite is the world standard for high-quality, natural sodium bentonite. Volclay® is used in all green sand molding applications ranging from the production of iron and steel castings to the production of non-ferrous castings. 
- **Panther Creek®** DC-6 (Southern) low-swelling, calcium bentonite is used in green sand molding and provides greater green compression strength than western bentonite, fireclay or other clay minerals. Panther Creek offers excellent shakeout, good rammability, excellent flowability, and low dry and hot compression strength.
- **Hevi-Sand®** specialty chromite sand prevents metal penetration and can be used with most foundry binders in molds and cores. Hevi-Sand offers low thermal expansion, low binder requirements, and significantly reduces overall cleaning costs. 
- **Cellflo®**, a cellulose product made from select kiln-dried hardwood. The ability of Cellflo to absorb and hold water slows drying of sand mixtures, helping to minimize brittle and lumpy mixtures and improve collapsibility at shakeout.
- **Flo-Carb®** is an organic, clean-burning carbonaceous material used to improve properties of green sand systems. Use of Flo-Carb, over other carbonaceous additives, results in improved green compression strengths, increased system sand flowability, and better shakeout.
- **Reeli-Klean®** and **Maxiflux™** are high-performance melt treatments used for non-ferrous alloys.
- **GFN-1 Flux** is a specialty ladle flux used for slag and inclusion control in gray and ductile iron.

## Supporting a Healthier and Safer Foundry and Environment

We are dedicated to innovative solutions that support a healthier and safer foundry and reduce negative environmental impact. Our extensive foundry expertise can assist you in finding solutions that can result in the following: 1) reduction of hazardous emissions generated by mold and core processes; 2) reduction of hazardous substances used and stored on site; 3) reduction of lost sand during shakeout; and 4) minimized wasted material resulting from casting defects.

# 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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