

Carbo Ceramics Media



ACCUCAST low- and intermediate-density high performance ceramic casting media

ACCUCAST ceramic casting media provides a unique combination of consistent thermal, physical and chemical properties. These characteristics provide economic and performance advantages compared to the various sand products used for metal casting production.

Engineered for performance

ACCUCAST ceramic media is an engineered product manufactured to provide performance that equals and significantly outperform specialty and silica sand products, respectively. Unlike sand types such as zircon and silica, our media is inert with a non-hazardous make-up which reduces HSE concerns and associated costs.

- Reduced media costs – The lower density of ACCUCAST ID and ACCUCAST LD ceramic casting media provides up to 69% lower cost per cubic foot of product compared to zircon sand as less product by weight is required to create equal volume core or molds.
- Fewer production defects – Low thermal expansion results in high quality, precision castings that reduce defects such as veining, penetration and burn-on to minimize finishing, cleaning and scrap costs.
- Reduced media consumption – Increased strength and durability enables high media reuse and the media composition improves reclamation which results in reduced disposal and replacement costs.
- High media flow – High media flowability reduces energy use while increasing production cycle rates to further reduce overall production costs.

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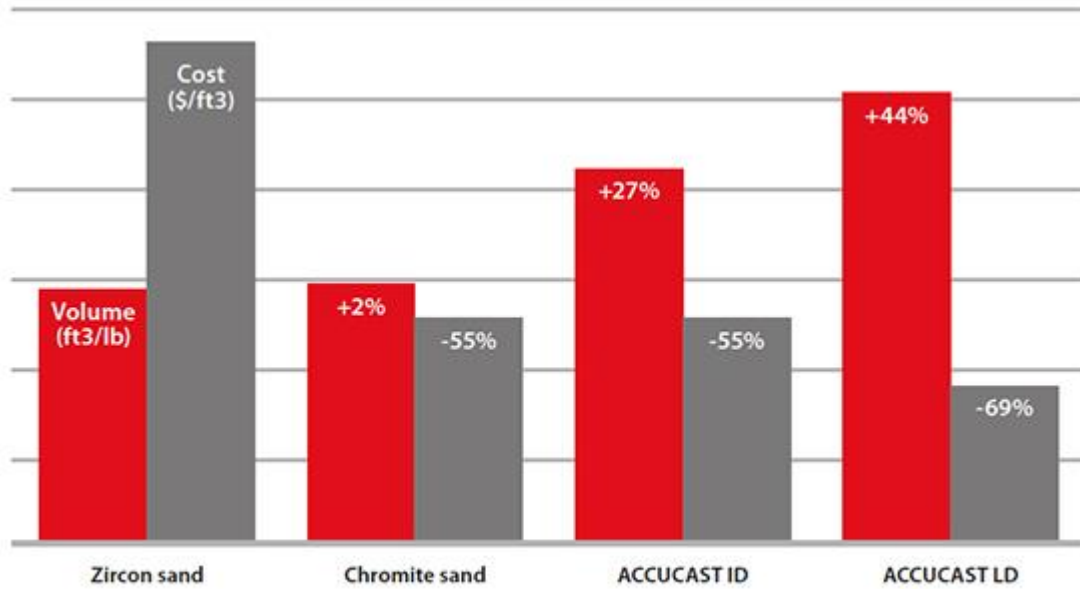
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Cost/ft³ compared to Zircon Sand



Zircon sand used as baseline for all calculations

Engineered to outperform specialty sand

ACCUCAST ceramic casting media has been engineered to have a lower density and outperform specialty sands while offering economic advantages. The media is available as two products:



ACCUCAST LD low-density ceramic casting media that provides excellent casting quality while delivering lower media and production costs.



ACCUCAST ID intermediate-density ceramic casting media that provides increased pellet strength and durability for demanding casting applications while retaining superior economic performance.

Improved media reclamation and reduced consumption

The exceptional strength and durability of ACCUCAST media enables the reuse of media. The media composition improves product reclamation, resulting in reduced transportation, disposal and product replacement costs.



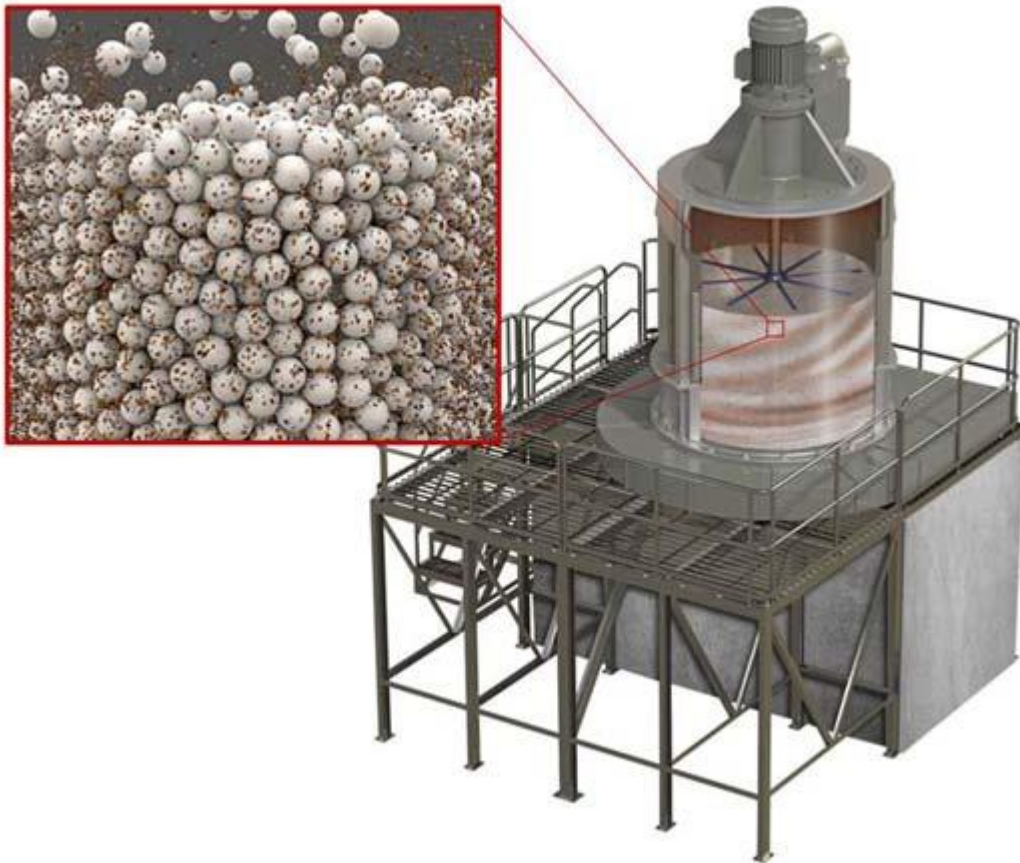
CARBOGRIND ceramic grinding media

CARBOGRIND ceramic media products are engineered to provide superior strength, hardness and uniform shape that result in a high resistance to particle attrition and compressive breakdown. Our sintering process yields a Mohs hardness that approaches that of a diamond.

Superior value over silica sand

Our ceramic grinding media provides value superior to silica sand and many other specialty media products. The durability of ceramic media results in longer product life, while the uniform size and spherical shape add efficiency to the grind and reduce wear on mechanical parts of milling equipment.

CARBOGRIND ceramic media products have been used in both vertically and horizontally configured wet mills. Our ceramic media products are inert and contain no quartz silica.



CARBOGRIND LD—Low-density, medium-strength, medium-hardness, light-color ceramic media

These products are typically used in vertical-designed milling devices where a low product density is preferred for operational efficiency, medium strength and hardness are adequate and a light color of the final product is critical.

CARBOGRIND HD—High-density, high-strength, high-hardness, dark-color ceramic media

These products are used in some vertical mills but have been especially effective in horizontal milling devices where high density is critical in supporting head pressures for effective grinding and final product color is less critical.