

FERRO-ALLOY BRIQUETTES

PRODUCT DESCRIPTION

Ferro-alloy briquettes are produced for use in cupola melted gray and ductile iron base metal, and are available in a variety of chemical compositions and sizes. They may also be tailored to fit specific individual requirements.

All products are produced from fresh 50% and 75% ferrosilicon fines generated through lump crushing operations. No sand or other aggregate fillers are used. The silicon content is controlled through varying the ratio of 50% and 75% FeSi fines used in each batch mix. The silicon recoveries from these products are very similar to that of lump ferrosilicon.

TYPICAL PHYSICAL PROPERTIES

Density: 140 – 170 lbs/cu. ft.

Melting Temperature: Approx. 2250° F

CHEMICAL COMPOSITION

<u>Product</u>	<u>Si</u>	<u>Mn</u>	<u>Binder</u>
50% FeSi	48 – 50%		7 – 9 %
40% FeSi	38 – 42%		7 – 9 %
40% FeSi/Mn bearing	38 – 42%	6 – 7%	7 – 9 %
66% FeMn	38 – 42%	66%	7 – 9 %

In addition to the above standard products, custom formulations may be produced to meet specific individual requirements if requested.

SIZING

Standard sizes include a seven segment slab brick weighing 25 – 40 pounds, depending on the brick formulations. For example, the 50% and Carsil brick produced with this size mold will weigh 35 and 30 pounds, respectively. A smaller, 3½" x 4" cylinder briquette has a finished weight of 4 to 5 lbs. Other sizes may be produced as requested.

USES

The products described in this bulletin may be used in any cupola melting operation where high levels of silicon recovery are desired. They may be used as direct replacements for ferrosilicon bricks, lump ferrosilicon, and silicon carbide. For applications where a carbon contribution to the melt is desired, carbon additions may be made to the product formulation.

PACKAGING

135 Units/Pallet (4 way entry)
4000 lb. Pallet Boxes

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