

FIVEN

INNOVATION AT FIVEN

SIKA® REF



Silicon Carbide



FIVEN - WE SHAPE INDUSTRIES.

Fiven is the world's leading producer of silicon carbide. Based on long time experience and industrial expertise, we are delighted to provide a wide range of high quality products combined with excellent services. Together with our customers we are expanding in growing markets by increasing our production and processing capacities. Environmental protection and safety aspects are crucial for us, which we continuously develop by optimizing our production processes.

Chemical inertness at high temperatures, high resistance to abrasion and to thermal shock make silicon carbide an attractive material for several refractory applications.

Our scale and long-standing experience in the refractory market make us a supplier of choice for customers sensitive to reliability of supply and consistency of quality.

Through its product range, Fiven has been a pioneer in the development of SiC grains and powders for the production of refractory, technical ceramics and composite materials. We offer grains and powders with varying

purity levels and particle sizes down to the sub-micron range, which are specifically designed to provide very high density, excellent oxidation resistance, superior hardness and strength, and high thermal shock resistance.

In addition to the powders, Fiven also offers ready-to-press (RTP) granules based on fine powders with specific surface areas typically ranging from 10 to 15 m²/g, sintering additives and temporary binders. Special tailor-made powders and RTP granules are available on request.

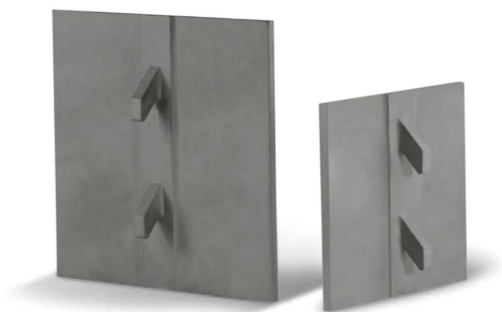


Silicon Carbide



SIKA® REF

Products for Refractory Applications



SIKA® REF I, REF II, REF III, REF I NI and REF I HG

Black silicon carbide grains for refractory applications.

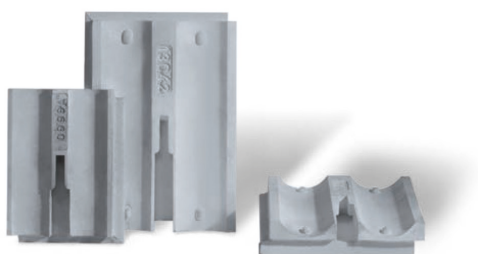
This line of products is used for several refractory applications in the industry of iron, steel, ceramics, nonferrous metals, energy, chemical etc.

Although Fiven has a specific designed product for each application, new developments to customize silicon carbide according to the customer's needs are available on request.

SIKA® REF I, REF II and REF III

For applications with standard requirements of temperature resistance and purity levels.

Applications: Aluminum reduction cells, copper industry, mortars, ramming pastes, tap hole clays, runners, filters, crucibles etc.



SIKA® REF I NI

Used in applications that require low magnetic iron content.

Applications: Kiln furniture, monolithics for blast furnace, desulfurization nozzles, heat exchangers, boiler linings, mortars, etc.

SIKA® REF I HG

For high performance refractories, presenting high density and low level of impurities (including low magnetic iron)

Applications: Trays, special casted pieces, gas cleaning, desulfurization nozzles, heat exchangers, reactors linings, tube protection, burner lining etc.



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