

CRUSH DECK APPLICATION

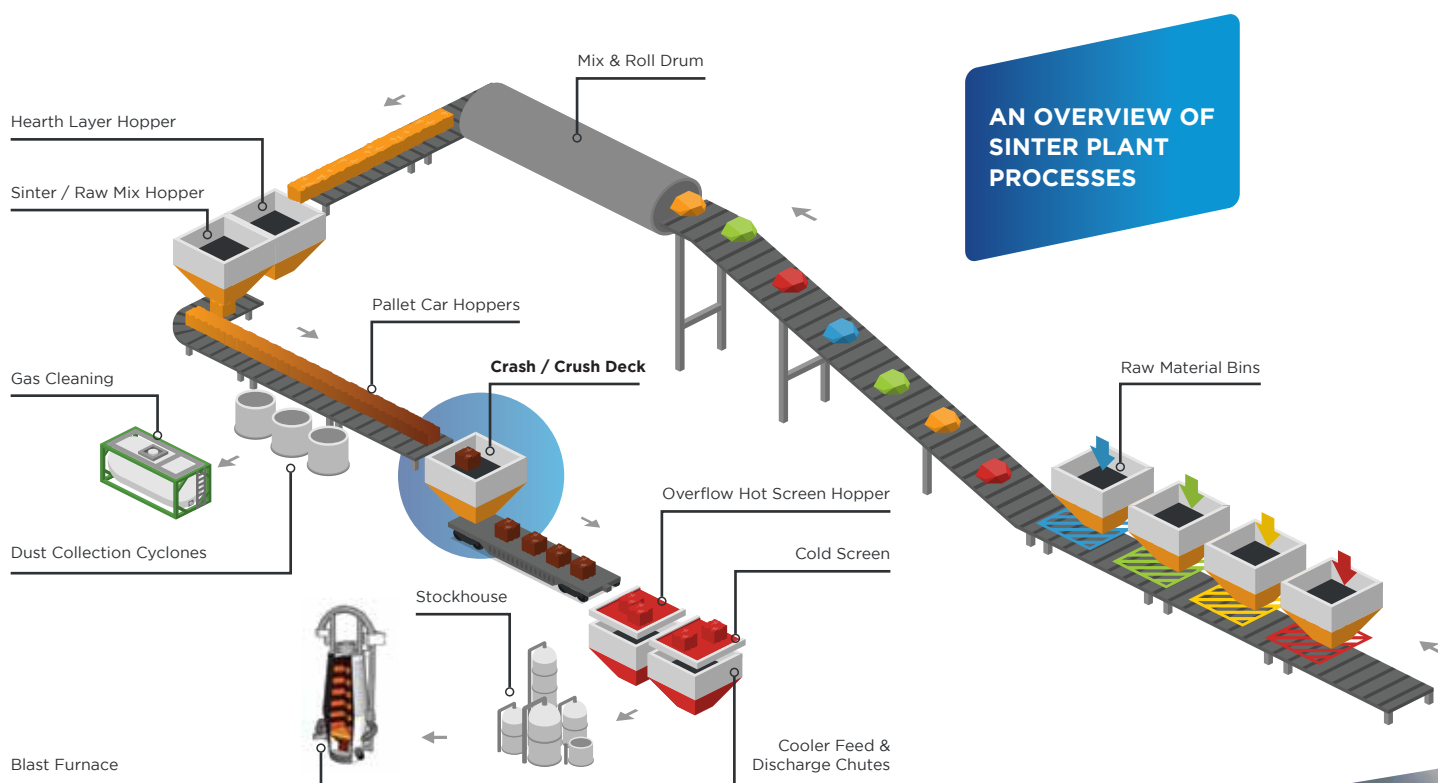
FOR SINTER PLANTS

Saint-Gobain Performance Ceramics and Refractories supplies a comprehensive range of lining types and systems to sinter plants, one of the most demanding plant systems to operate. Our innovative solutions are integral to every part of the iron ore fine sintering process, from preparing sinter mixtures to recycling fines from the sinter plant and blast furnace.

As pioneers in the industry, **we installed the first crush deck installations in the late 1970s** and continue to lead with advanced solutions.

EFFICIENT SINTER PRODUCTION

Sinter plants function by agglomerating iron ore fines with other fine materials at high temperatures, creating a usable product for blast furnaces. The final product, known as sinter, consists of small, irregular nodules of iron mixed with minor amounts of other minerals.



ADVANCED CRUSH DECK APPLICATION

In the Crush Deck application, the process begins with the hot sinter material falling from a height, impacting the crush deck. This deck is designed to absorb the impact effectively and transfer the material to the next stage. Following impact absorption, the sinter material is directed to crushers for further processing, ensuring smooth and efficient handling of high-temperature materials.

Saint Gobain Performance Ceramics and Refractories provides advance solutions thereby enhancing this process by offering superior durability, extending the lifespan of the crush deck.

OUR SOLUTION - ER 1681®

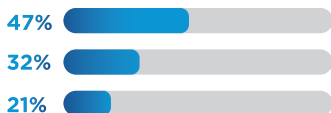
Chemical composition	Acceptance Limits
Al ₂ O ₃	By difference
ZrO ₂	Min 31.4 %
SiO ₂	13.7 % to 15.6 %
Na ₂ O	1,11 % to 1.40 %
CaO	<= 0,15 %
TiO ₂	<= 0,15 %
Fe ₂ O ₃	<= 0,20 %



MICRO-
PHOTOGRAPHY

TYPICAL CRYSTALLOGRAPHIC ANALYSIS

Typical analysis provided for information purposes (the crystallographic analysis results may vary depending on the type of block and the location of the sample within the block).



BENEFITS

- **Extended Product Life:** Our products last 12 to 14 months, significantly longer than the 4 to 6 months lifespan of Kalcor products.
- **Reduced Maintenance:** Minimal need for regular maintenance activities.
- **Increased Productivity:** Enhanced efficiency and reliability lead to higher productivity.
- **Industry Standard:** All modern sinter plants adopt our crush deck fused cast refractories products.
- **Easy Handling:** Designed for easy replacement and continued use.

KEY FEATURES



High-Temperature Tolerance:

Handles sinter material at temperatures of 600 to 700°C.



Durability: Sinter material falls from a height of up to 2 meters, and our crush deck is designed to absorb this impact efficiently.



Dimensions: Blocks available in sizes 600x400x300 mm and 600x300x300 mm.

For more information:
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