

# CRASH DECK APPLICATION

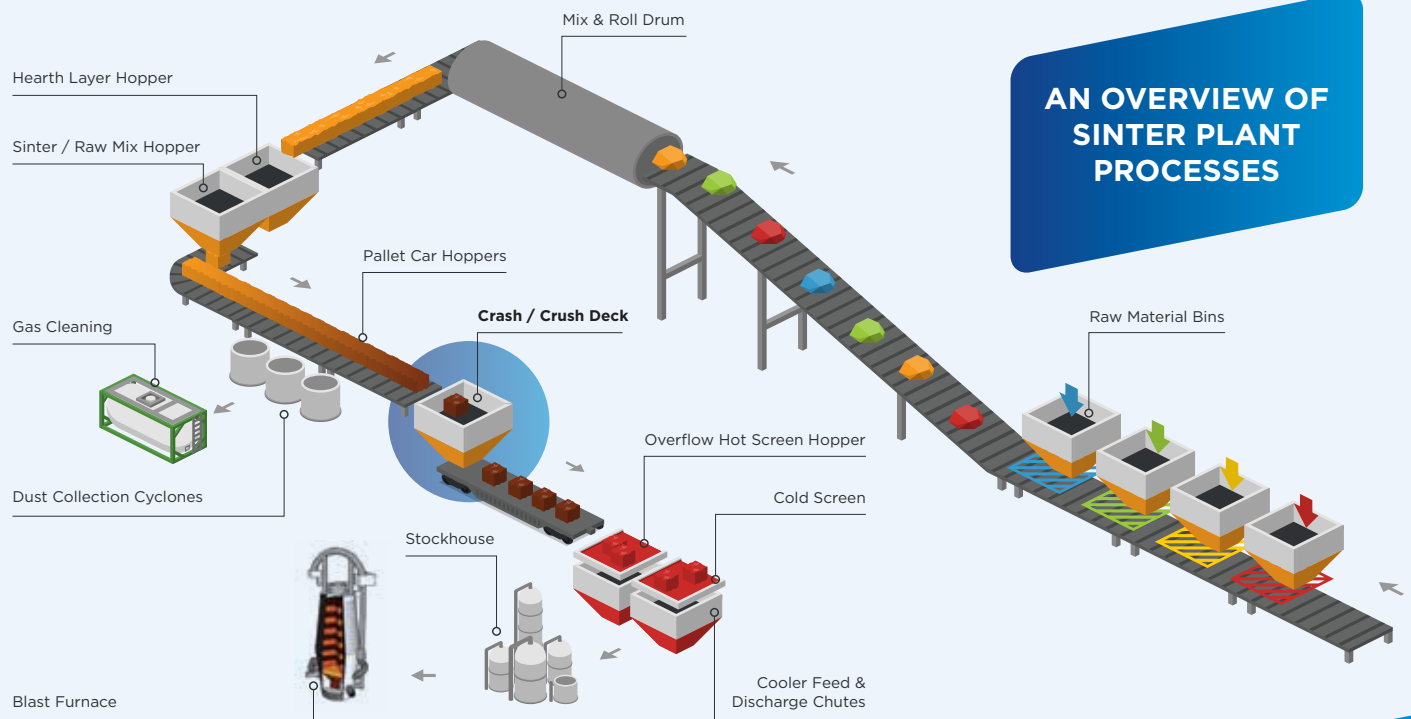
## FOR SINTER PLANTS

Saint-Gobain Performance Ceramics and Refractories manufactures and supplies a comprehensive range of lining materials to sinter plants, whose equipment are subjected to extreme operating conditions combining high temperature, abrasion and impact. Our high performance solutions are integral to every part of the iron ore sintering process, from mixtures preparation to fines recycling from the sinter plant and blast furnace.

As pioneers in the industry, **WE INSTALLED THE FIRST CRASH DECK CERAMIC LININGS IN THE LATE 1970's** and continue to lead with advanced solutions.

### EFFICIENT SINTER PRODUCTION

The basic operation of a sinter plant consists in blending iron ore fines with other raw materials and consolidating them at high temperatures. The resulting material has to be post-treated by crushing and screening processes. The final product, known as „sinter“, is then used in blast furnaces, where it is reduced and transformed into pig iron.



AN OVERVIEW OF  
SINTER PLANT  
PROCESSES



Scan the QR code  
for the digital version

# ADVANCED CRASH DECK APPLICATION

In the crash deck application, the process begins with the hot sinter (around 600°C-1000°C) falling from 2 meters height or more, impacting the crash deck. This deck is designed to withstand severe impact loads at high temperature, as well as sliding abrasion and thermal shock. Following impact absorption, the sinter material is directed to crushers for further processing, ensuring smooth and efficient handling of the high temperature iron ore agglomerates.

Saint Gobain Performance Ceramics and Refractories provides advanced solutions to enhance this process by offering superior robustness and durability, thereby reducing crash deck outages and maintenance.

## OUR SOLUTION - CORGUARD® ZAC

CHEMICAL COMPOSITION	TYPICAL VALUE
Al <sub>2</sub> O <sub>3</sub>	50.9 %
ZrO <sub>2</sub>	32.5%
SiO <sub>2</sub>	15%
Others	1.6%



## 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).



## KEY FEATURES

- High-Temperature Tolerance:** Handles sinter material at temperatures of 600 to 800°C and beyond.
- Durability:** Sinter material falls from a height of up to 2 meters or more, and our crash deck lining solution is designed to absorb this impact efficiently.
- Typical dimensions:** Blocks available in sizes 600x400x300 mm, 600x300x300 mm or customized.

## BENEFITS

- Extended Product Life:** Our products last 12 to 14 months, significantly longer than the 4 to 6 months lifespan of concrete-based 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 crash deck lining solution with fused cast refractories products.
- Easy Handling:** Designed for easy replacement and continued use.

For more information:  
[www.ceramicsrefractories.saint-gobain.com](http://www.ceramicsrefractories.saint-gobain.com)  
[ceramics.refractories@saint-gobain.com](mailto:ceramics.refractories@saint-gobain.com)

Follow us on



The information contained in this document is believed to be accurate and reliable but is provided without guarantee or warranty on the part of Saint-Gobain Performance Ceramics & Refractories. Process parameters and requirements can impact typical values and test methods. Further, nothing present herein should be interpreted as an authorization or inducement to practice any patented invention without an appropriate license. Saint-Gobain Performance Ceramics & Refractories Terms and Conditions apply to all purchases.

Copyright © 2026, Saint-Gobain Performance Ceramics & Refractories. All rights reserved.

