

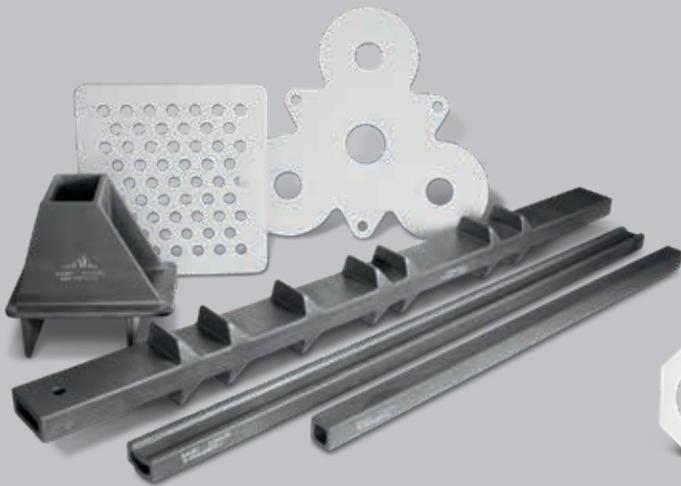
CERAMIC SYSTEMS

SANITARYWARE

SUSTAINABLE SILICON CARBIDE
LO-MASS® SOLUTIONS



DESIGNED TO PERFORM & OUTLAST



Saint-Gobain provides silicon carbide (SiC) kiln furniture for all sanitaryware firing systems. Large ceramic products are fired single and multi-deck. For these applications stable beams and supports are essential as well as thin batts or vanity basin setters.



BENEFITS

-  Reduced refractory mass
-  Lower energy consumption
-  Higher Productivity
-  improved fired product quality
-  Faster ROI

PERFORMANCE CERAMICS & REFRACTORIES


SAINT-GOBAIN

Improve operating efficiencies by replacing heavy Cordierite kiln furniture with LO-MASS® advanced silicon carbide kiln furniture systems (Cryston™ plates & N-Durance® support).
 Saint-Gobain Performance Ceramics & Refractories (PCR) introducing Lo-Mass® silicon carbide based kiln furniture manufactured in India.

Conventional material vs. innovative Lo-Mass® silicon carbide

Traditional Cordierite



38 mm Cordierite plate

High performance SiC



5 mm N-Durance® plate

Property	Cordierite	Cryston™	N-Durance®
Density, g/cm ³	2.30	2.80	2.75
Modulus of Elasticity, GPa	20	235	240
Modulus of Rupture, MPa	10	170	170 - 190
Coefficient of thermal expansion, 10 ⁻⁶ /K	2.5	4.4	4.4
Max. service temperature, °C	1280	1450	1450

Features

- Bending strength
With 17 times higher bending strength of SiC - plate flatness intact throughout its lifetime!
- Surface porosity < 1 %
With <1% porosity, coating of plate not necessary*.
- Excellent thermal shock & oxidation resistance
Longer plate life due to outstanding thermal shock behaviour.

* to be decided on case to case basis.

Leverage Our Expertise.

Saint-Gobain Performance Ceramics & Refractories engineers and researchers collaborate with you, our customers, to solve operational challenges with abrasion resistant ceramic lining systems.

For more information: Ceramics.refractories@saint-gobain.com
www.ceramicsrefractories.saint-gobain.com

Your contact:

Ashutosh Deva
 Product Manager
ashutosh.deva@saint-gobain.com
 +91 86961 13379

Follow us on www.linkedin.com/company/saint-gobain-performance-ceramics-refractories
www.twitter.com/SaintGobainPCR



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.



Find out more about our innovative XXL plates