



SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES

# TAP HOLE CLAY

FOR BLAST FURNACES HEARTH PROTECTION



SCAN ME

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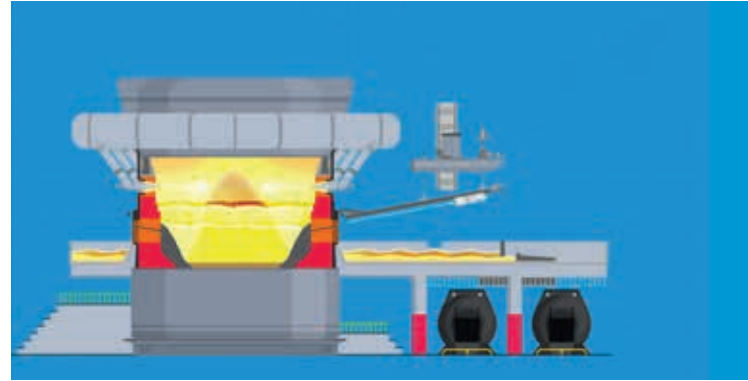


## TAP HOLE CLAY

### BEYOND HIGH PERFORMANCE OR OPERATIONAL SAFETY

A high-performance tap hole clay allows a blast-furnace hearth to continue operating with a safe protection, enabling to increase its operational life for many years and consequently reducing the overall costs of maintenance & stoppages.

Saint-Gobain offers a product portfolio of high-performance tap hole mix for blast furnaces of all sizes. By selecting the finest raw materials and by thorough understanding of the current furnace conditions, we offer custom products with leading technology to ensure increased tap hole lengths, reduced tapping time and a suitable protection of the furnace hearth.



SR HP: High Performance: Longer tap hole length & casting time

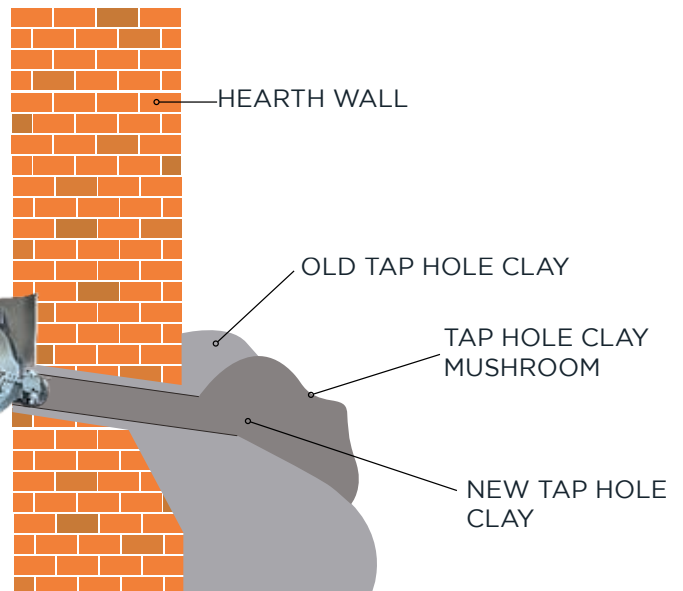
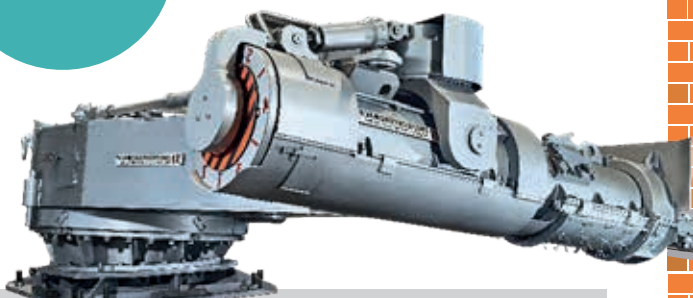
### OUR DIFFENTIALS

- Tailor made
- Local technical support
- Strong & stable partnership
- State-of-the-art technology



Visit our website  
and contact us today.

Tailor-made  
materials &  
solutions



## MAXIMIZE YOUR BENEFITS

Our custom product solutions offer distinctive features that has enabled our customers to overcome the persistent pain points while proving economical impact.

### FEATURES & BENEFITS



Easy to drill



Reduce overall cost



Improved plasticity



Lower consumption of tap hole clay



High corrosion resistance



Better protection of the blast furnace hearth walls



High abrasion resistance



Better and stable drainage of metal from the furnace



Improved adhesive strength



Robust composition for harsh process condition



Good sintering behavior

## WHY CHOOSE SGSR ?



For over three decades, Saint-Gobain has partnered with Shinagawa Refractories, one of the leaders in refractory solutions for ironmaking industry, for designing, developing and manufacturing of custom solutions to the fast changing and demanding market needs.

This joint venture company between Shinagawa & Saint-Gobain (SGSR - SG Shinagawa Refractories India Private Ltd.) has helped us to become the most preferred choice and a strong brand across ironmaking plants, for its most advanced tap hole clay technology, fast technical assistance and tailor made innovative solutions.

## CERTIFICATION GRINDWELL NORTON LTD.

Our production facilities are certified by:  
UKAS Management Systems



Quality

ISO 9001:2015

Environment

ISO 14001:2015

Occupational  
Health & Safety

ISO 45001:2018

## PERFORMANCE CERAMICS & REFRACTORIES

Saint-Gobain Performance Ceramics & Refractories has been designing and manufacturing high performance ceramics & refractories for over 70 years. Our team of application engineers, material scientists and design engineers understand the conditions in atmosphere furnaces and can help you choose the correct material for your application.

Benefit from these advantages:

- Custom engineering to customer specifications
- Consistently high-quality manufacturing
- Extensive worldwide capacity
- Robust export compliance
- Manufacturing locations on multiple continents
- Global R&D resources

Tailor-made  
materials &  
solutions

## OUR SERVICES



### DESIGN & ENGINEERING

Customized solutions including ceramic & refractory drawings, adjusted design and modeling capabilities to help minimize maintenance/relining frequency.



### INNOVATION

Research & development team stationed at our leading-edge R&D centers in Europe, North America and Asia; specialize in ceramic & refractory technology and constantly interact with customers & industry experts while using the most progressive and multidisciplinary technologies.



### PARTNERSHIP

Experienced application teams offer assessments, working in partnership with customers to explore material science and shape capability available from a world leading ceramic & refractory manufacturer.



### CUSTOMER SUPPORT

Experienced, dedicated teams work closely with customers, either in person or remotely via the most advanced digital platforms.





# MAKING THE WORLD A BETTER HOME

## OUR COMMITMENT

Being carbon free by 2050

## SUSTAINABILITY AT THE HEART OF OUR BUSINESS STRATEGY

Sustainability is a key tenet of modern environmental, social, and corporate governance (ESG).

## OUR AMBITION

To provide solutions to our customers that contribute to de-carbonization and reduce environmental footprint.

At Saint-Gobain Performance Ceramics and Refractories, our business model directly contributes to critical ESG outcomes with a dual approach to sustainable development goals: **Minimizing our environmental footprint while maximizing our virtuous impact across the entire value chain.**

## OUR 2030 OBJECTIVES

### WATER

- - **50%** Industrial water withdrawal
- **0** water discharge in area with extremely high water risk



### CO<sub>2</sub> EMISSIONS

- - **33%** reduction in scope 1 and scope 2 emissions
- - **16%** reduction in scope 3 emissions



### CIRCULAR ECONOMY

- - **80%** non valorized production residue
- + **30%** avoidance of virgin raw material
- **100%** recyclable packaging with 30% recycled or bio-sourced content



### PRODUCT STEWARDSHIP

- **100%** Life Cycle Analysis for all of Group product ranges







# SAINT-GOBAIN



**1 in 4** products  
did not exist 5 years ago



**170.000+**  
employees



2022 sales of  
**51.2 billion**



represented in  
**76**  
countries



**-27%**  
carbon emissions  
reduction (vs. 2017 on scope 1+2)



**8**  
main R&D centres

## OUR MISSION

Saint-Gobain designs, manufactures and distributes materials and solutions which are key ingredients in the well-being of each of us and the future of all.

## OUR PURPOSE

**MAKING THE WORLD A BETTER HOME.**



**WE ARE COMMITTED TO BEING CARBON FREE BY 2050.**

## OUR GLOBAL PRESENCE

### USA

Niagara Falls  
Worcester

### MIDDLE EAST & AFRICA

Dubai (UAE)

### EUROPE

Castellón (Spain)  
Corsico (Mi), (Italy)  
Prague (Czech Republic)  
Rainford (United Kingdom)  
Rödental (Germany)

### INDIA

Bangalore  
Halol

### PACIFIC

Melbourne (Australia)

### JAPAN

Nagoya

### CHINA

Dengfeng

### ASIA

Seoul (Korea)

## CONTACT US

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PERFORMANCE CERAMICS & REFRACTORIES

