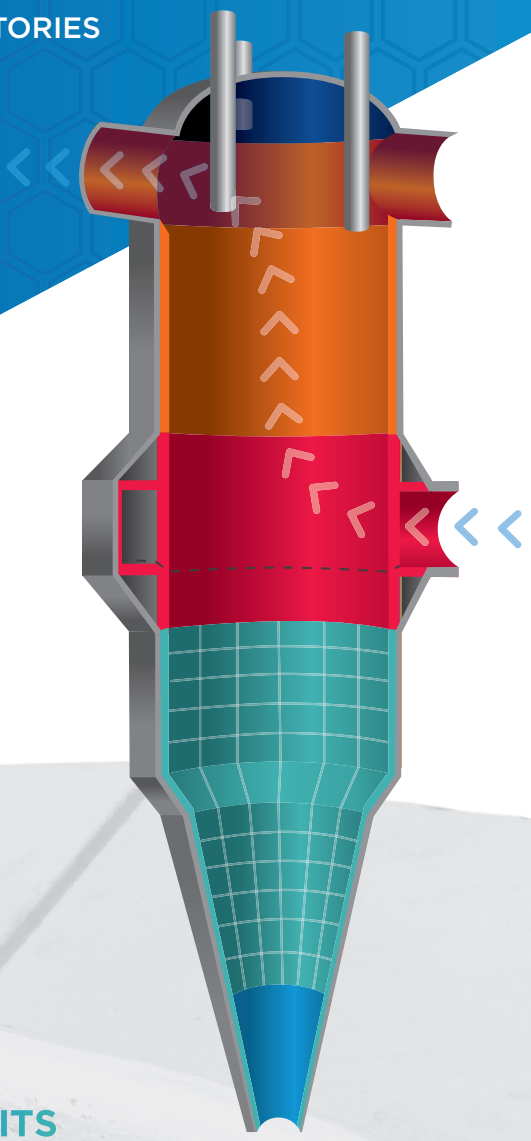
SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES

CORSHIELD™

INNOVATIVE REFRACTORIES FOR DRI APPLICATIONS



LOW-CO_2 IRONMAKING VIA DIRECT REDUCED IRON

Direct Reduced Iron (DRI) is transforming iron production by providing a more environment friendly alternative to the traditional blast furnace route. As the industry advances towards low CO_2 emission iron and steel making, the demand for cutting-edge refractory solutions that can withstand the unique challenges of DRI shaft furnaces, especially with elevated hydrogen (H_2) levels, is growing.

Our refractory bricks are engineered to meet these demands, offering sustainability combined with durability towards abrasion and complex gas corrosion. Rely on our innovative materials to boost the efficiency and longevity of your DRI processes.

BENEFITS

IMPROVED LIFETIME
More than 15 years of durability reported for the lower cone area.

GAS CORROSION RESISTANCE
Highly effective in contact with reducing gases, from reformed natural gas inlets to hydrogen boosting.

ABRASION RESISTANT
Engineered to withstand the harsh conditions relative to the continuous flow of solid pellets.

CONTACT US

SAINT-GOBAIN

SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES

CORSHIELD™ INNOVATIVE REFRACTORIES FOR DRI APPLICATIONS

Enhance Your DRI shaft furnace with CORSHIELD™

Sustainable, Durable, and Hydrogen-Resistant Refractory Bricks!

Saint-Gobain Performance Ceramics & Refractories specializes in high-quality refractory bricks for critical areas in direct contact with iron ore pellets and corrosive atmospheres. Our range includes High Alumina, Mullite, and Fused Cast AZS refractories, ensuring top-notch quality and reliability.

We cover the entire furnace, from the upper shaft to the lower cone, with tailored solutions for each zone. Our primary focus is on the hot face, guaranteeing optimal performance and durability in the harshest conditions.

CORSHIELD™ Focus on the Lower Cone of Your DRI Shaft Furnace

SUSTAINABILITY

Manufactured with 100% green energy in our EcoVadis Platinum-rated facility.*

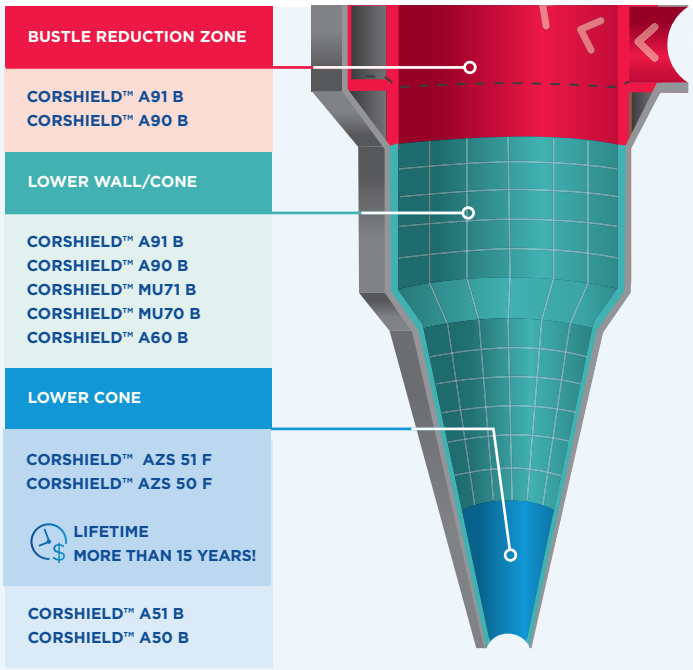
*For lower cone. Mezzocorona, Italy,

DURABILITY

Long-lasting performance more than 15 years reported by DRI operators, reducing the need for frequent repairs or replacements.

TECHNICAL EXCELLENCE

Engineered to meet the specific demands of modern DRI shaft furnaces.



Gas Corrosion Testing for DRI Furnaces

We conduct rigorous gas corrosion tests with high hydrogen concentrations to ensure accuracy for specific areas of the furnace. This testing is crucial for tailoring solutions to withstand the unique conditions of DRI furnaces, ensuring optimal performance and longevity.

- COMPLETE SOLUTION
- SUSTAINABILITY AND INNOVATION
- FOCUS ON CRITICAL AREAS
- EXPERTISE AND CUSTOMIZATION

For more information:
Our CORSHIELD™ refractory solutions are designed to support the transition towards Low-CO_2 iron and steelmaking, ensuring long service life and optimal performance in DRI applications. Contact us today to learn more about how CORSHIELD™ can enhance your operations.

www.ceramicsrefractories.saint-gobain.com
ceramics.refractories@saint-gobain.com

Follow us on

SAINT-GOBAIN