SAINT-GOBAIN

FULL SUPPLY
Full Inclusive Reline Service

UPPER STACK

In this low temperature area, abrasion by the solid burden is the primary mode of wear. Our silicon carbide has proven to be cost-effective solution.

Refrax 20 SBF / SiC 85P MS2R / MS6

LOWER STACK

Abrasion by the coke burden is still a concern but driven by an increasing temperature, in depth attack by Alkali and Zinc vapor become predominant . Our **REFRAX 20 SBF** is a worldwide recognized reference for this application

Refrax 20 SBF / SiC 85P/ MS2R

Sicanit AL3

BOSH AND BELLY

In addition to Alkali and Zinc attack, the occurrence of molten iron and slag calls for SiAlON bonded materials. We recommended either our silicon carbide **Sicanit Al3** or our Corundum based **Coranit 3S**. The final decision dependes on thermal conductivity requirement (low, to save energy, or high, to promote a protective skull).

Refrax 20 SBF / Sicanit AL3 / Coranit 3S

TUYERE BELT

The tuyere sourrundings experience high heat load and thermal shock in combination with corrosion by molten iron and slag and intense Alkali and Zinc vapor attacks. Backed by a unique range of refractory materials, including silicon nitride or SIAON bonded shapes and pre-formed no and low cement castables, our engineered tuyere sourrounings will fit best to the specific requirements of your blast furnace operation.

MonoCoral / MonoGuard/ Sicanit TM

HEARTH

Traditionally, blast furnace hearths are lined with high thermal conductive carbon-based materials. Placed inside the carbon lining the concept of the **SG Ceramic Cup** is an example where a specific advanced design and material quality render significant benefit to blast furnace operators in terms of lifetime extension and operational efficiency. Beware of cheap copies on the Ceramic Cup. **Design** (avoiding high stress, and items floating off) **Material Quality** (to ensure slow wear) and correct **Installation** all need to be correct to ensure good lifetime

Coranit SlagR / Coranit AL

MS4 / MS4R / MS10