

CERAMIC CUP SAVINGS

IN BLAST FURNACE OPERATIONS



SAVE COSTS & ENERGY

FOR A SUSTAINABLE FUTURE

At Saint-Gobain, our commitment to sustainability enables us to develop innovative, effective solutions that meet the challenge of protecting the environment. Already our Coranit® AL extends hearth wall life by approximately 10 years, our latest development is expected to increase hearth wall life by a further 2 to 3 years.

BENEFITS CERAMIC CUP



Lower energy consumption



Reduction of CO₂ emissions



Quick Pay-Back within 2 years



Recycling of slag:
no Ilmenite addition

Saint-Gobain's 3rd generation Ceramic Cup quality Coranit® SlagR has improved resistance to iron, slag, alkali corrosion and wears very gradually over the lifetime of the hearth.

Due to its excellent quality the life of your blast furnace hearth will be extended.



CASE STUDY FOR EUROPEAN BLAST FURNACE HEARTH

CO₂ emission - price development affects every industry sector

The key result is a constant increase of the price per ton of CO₂ emissions - in one year the price per ton has more than doubled.¹

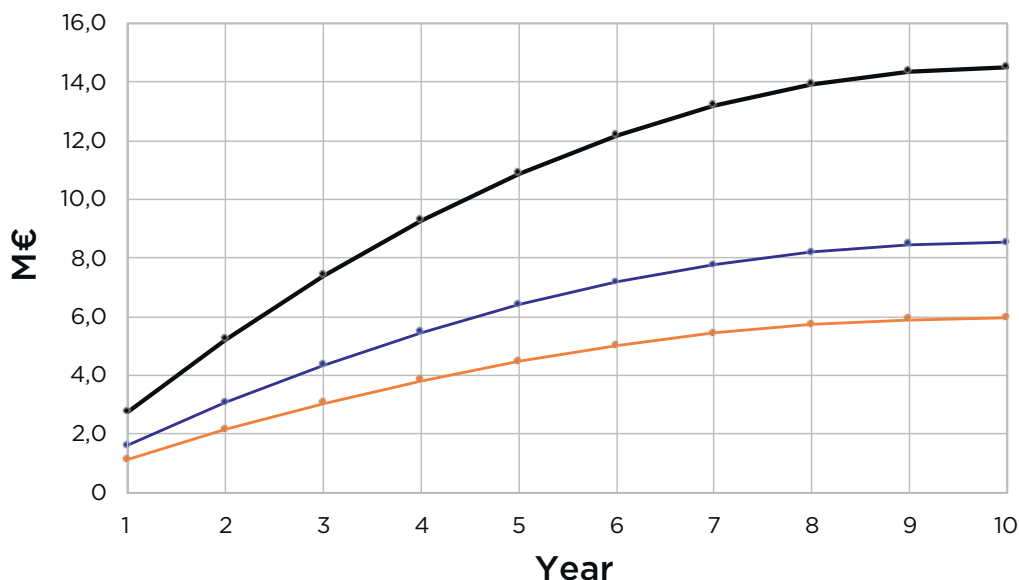
TOTAL CO₂ SAVINGS

65 KT

TOTAL COKE SAVINGS

20 KT

Ceramic Cup Savings (M€) after "x" years:



- By direct coke saving
- By CO₂ tax saving (M€)
- Cumulated Total (M€)³

Graph: Case study calculated on an existing blast furnace with ceramic cup (hearth diameter 11m)



Visit our website and contact us today.

¹ www.ec.europa.eu/clima/policies/ets_en

² in hearth with Saint-Gobain Ceramic Cup

³ Based on a coke price 260 US\$/t and CO₂ cost 55 €/t

Leverage Our Expertise.

Saint-Gobain Performance Ceramics & Refractories engineers and researchers collaborate with you, our customers, to solve operational challenges with customized hearth lining solutions.

For more information: Ceramics.refractories@saint-gobain.com
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PERFORMANCE CERAMICS & REFRACTORIES

