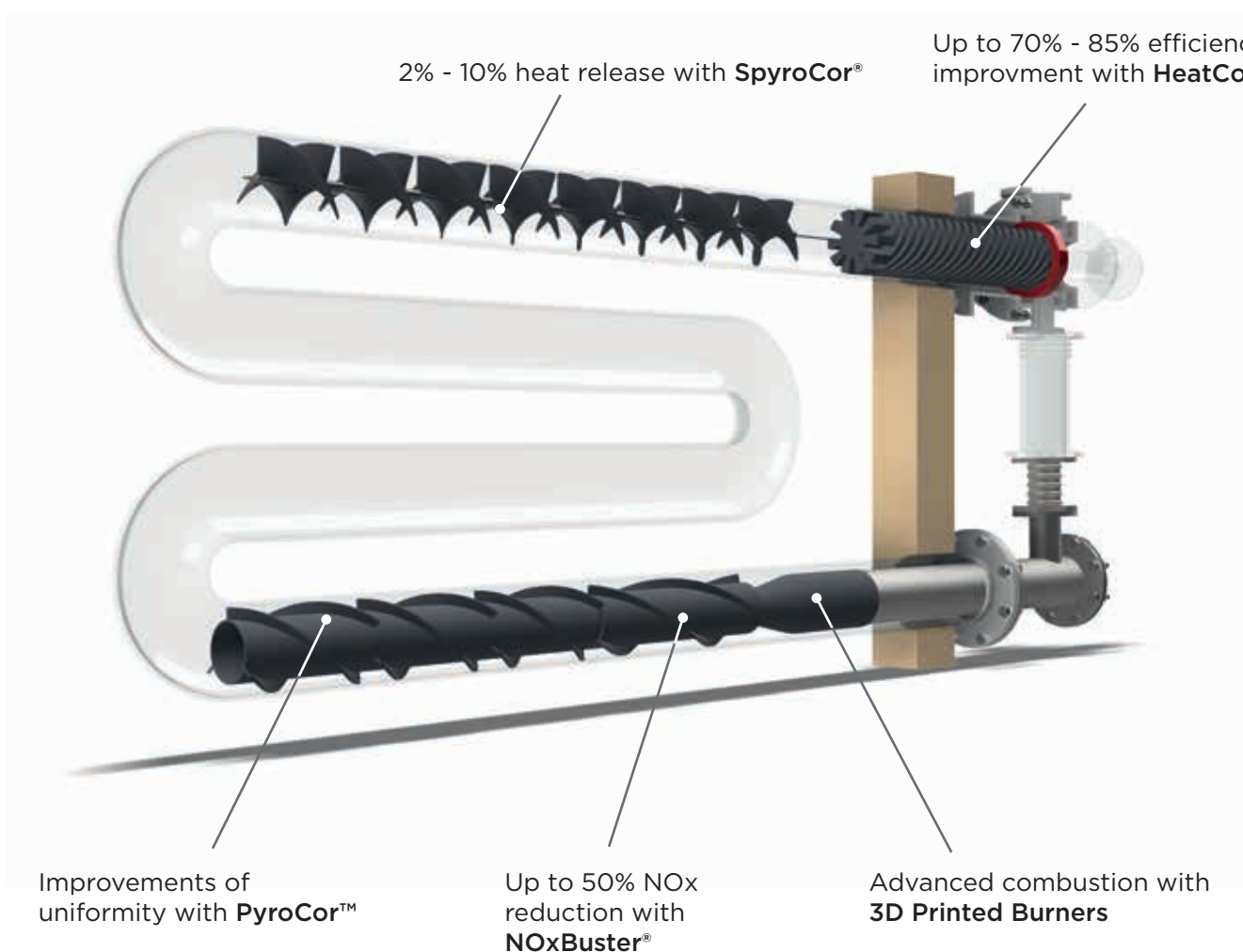


TOTAL BURNER SOLUTION FOR ALUMINUM ANNEALING



CARBON NEUTRALITY BY 2050



2% - 10% heat release with **SpyroCor®**

Up to 70% - 85% efficiency improvement with **HeatCor™**

Improvements of uniformity with **PyroCor™**

Up to 50% NOx reduction with **NOxBuster®**

Advanced combustion with **3D Printed Burners**

SINGLE ENDED RADIANT TUBE

U-TUBE

W-TUBE



PERFORMANCE CERAMICS & REFRACTORIES

SAINT-GOBAIN

The annealing furnace consumes a significant amount of energy and generates carbon and nitrogen oxide emissions. Saint-Gobain Performance Ceramics & Refractories offers a unique burner solution for Aluminum Annealing to improve the radiant tubes' energy usage, emissions and thermal performance.

up to
15%+
energy
savings



SPYROCOR® - RADIANT TUBE INSERT

The „twisted tape“ design of the SpyroCor® advanced radiant tube insert recovers heat lost in exhaust gases.

SpyroCor®

- Advanced silicon carbide microstructures provide high thermal conductivity and shock resistance
- Long service life
- High radiant output

HEATCOR™ - RECUPERATOR

A 3D-printed ceramic recuperator that pre-heats combustion air for high efficiency burner performance.

HeatCor™

- Thin-wall silicon carbide offers the highest rates of heat transfer and thermal performance
- Variable twist and channel cross-section provides optimized efficiency with the lowest pressure drop
- Working temperature up to 1,350°C

up to
80%+
efficiency
improvement



up to
50%+
reduction of NOx
emissions



NOXBUSTER® - RADIANT TUBE INSERT

NOxBuster® patented design suppresses NOx formation via internal exhaust gas recirculation within the radiant tube.

NOxBuster®

- Novel design combines recirculation and staged combustion for optimum
- NOx reduction using HeatCor™

Leverage Our Expertise.

Saint-Gobain Performance Ceramics & Refractories engineers and researchers collaborate with you, our customers, to solve operational challenges with customized ceramic solutions for aluminum annealing.



SCAN to connect

and discover more
about our aluminum solutions

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

Follow us on [in](https://www.linkedin.com/company/saint-gobain-performance-ceramics-refractories) <https://www.linkedin.com/company/saint-gobain-performance-ceramics-refractories>

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.

PERFORMANCE CERAMICS & REFRACTORIES


SAINT-GOBAIN