TOTAL BURNER SOLUTION FOR ALUMINUM ANNEALING

CARBON NEUTRALITY BY 2050

2% - 10% heat release with SpyroCor®

Up to 50% NOx reduction with NOxBuster®

Advanced combustion with 3D Printed Burners

Improvements of uniformity with PyroCor™

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

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.

SPYROCOR® - RADIANT TUBE INSERT

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

- 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.

- 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

NOXBUSTER® - RADIANT TUBE INSERT

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

- 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.

Follow us on LinkedIn: https://www.linkedin.com/company/saint-gobain-performance-ceramics-refractories

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