

# NORLOOP®

## PRECAST CERAMIC LOOPS FOR CHANNEL FURNACES INDUCTORS



### SAVE COSTS AND ENERGY FOR A SUSTAINABLE FUTURE

At Saint-Gobain, our commitment to sustainability enables us to develop innovative, cost effective solutions that meet the challenge of protecting the environment.

Saint-Gobain NORLOOP® ceramic inserts are engineered ceramics designed to withstand the harsh conditions inside the most critical area of the channel furnace.

### BENEFITS



More consistent lining life



Easier startup of furnace campaign and faster heat up



Longer channel furnace lifetime



Competitive downtime



# NORLOOP® - CERAMIC INSERTS

The product family NORLOOP® exhibits an optimized structure capable of resisting the flow of liquid metal under a magnetic field at high temperatures.

Most prominently, NORLOOP® supports the prevention of clogging and premature erosion, while also providing enhanced safety through the ability to resist premature gas and liquid penetration.

These products are customized according to your applications (Aluminum, Copper, Iron, etc.) with optimized characteristics to fit customer requests such as thermal conductivity, non-wetting surface aspect, densification.



## FEATURES



Optimized surface reducing erosion and corrosion



Fully sintered product in house - more reliably and quicker pre-heating



Higher heat transfer\*



High density product with controlled open porosity



Non-wetting surface

\* Applies to silicon carbide products.

PRODUCT	BOND	METAL CHEMISTRY	ADVANTAGES
NORLOOP® A 308	Oxide Ceramic	Non-Ferrous / Ferrous	Optimal porosity, fully sintered, quick startup
NORLOOP® RB SiC	Reaction Bonded	Zinc / Aluminum	Non-wetting, fully sintered, porosity free
NORLOOP® NB SiC	Nitride Bonded	Non-Ferrous	Non-wetting, fully sintered, nearly porosity free

# NORVIBE® - DRY MIXES

NORVIBE® dry mixes are optimized solutions specifically designed for full compatibility with NORLOOP® ceramic inserts. They provide consistency and reliability in operations.

## 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 channel furnaces inductors.



## SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES

For more information:  
[www.ceramicsrefractories.saint-gobain.com](http://www.ceramicsrefractories.saint-gobain.com)  
[ceramics.refractories@saint-gobain.com](mailto:ceramics.refractories@saint-gobain.com)

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### GERMANY

Saint-Gobain IndustrieKeramik Rödental GmbH  
 Oeslauer Straße 35, 96472 Roedental  
 PHONE: +49 (0) 9563 724 201

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