

EXPERIENCE IN

Sanitaryware

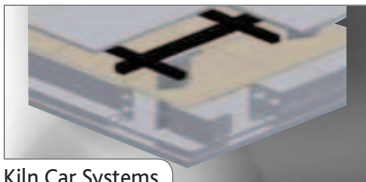
Kiln Furniture

Imerys Kiln Furniture is a leader in supplying the sanitaryware industry with kiln furniture solutions. From your first installation to the optimization of existing lines, Imerys Kiln Furniture is a partner of choice to meet your technical and business challenges.

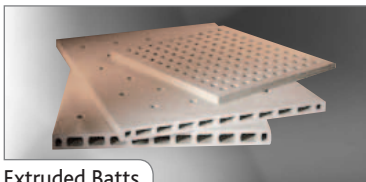
Kiln furniture is a key component of the sanitaryware production process. It has a significant impact on:

- The productivity of your kiln: an optimized design, adapted to your product mix, is essential to have a high loading rate of your firing line.

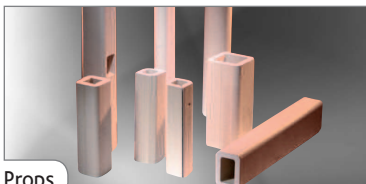
- The quality of your products: precise and stable geometrical dimensions of kiln furniture are essential to produce high quality sanitaryware pieces.
 - The energy consumption.
 - The maintenance cost: long life-time kiln furniture.
- Leveraging on our high quality materials, a wide range of shaping processes (extrusion, pressing and casting) along with high design capabilities, Imerys kiln furniture has developed high performing and complete set of solutions for the sanitaryware industry. Whatever your need is: new installation, installation optimization or maintenance, we are able to design and deliver the full kiln furniture systems, for both tunnel kilns and shuttle kilns, meaning: kiln car refractory system, superstructures and stools (supports).



Kiln Car Systems



Extruded Batt's



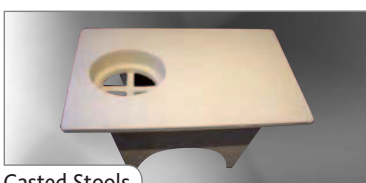
Props



SiC Beams



Sink / Basin



Casted Stools

Our solutions

Kiln car

Characteristics

- Low thermal mass
- Complete protection of all steel components against heat
- Easy assembling design allowing:
 - Time sparing at first installation
 - Low maintenance costs

Superstructure

Characteristics

Cordierite / Extruded Batt's

- Low thermal mass
- Long life-time
- High flatness, precise and stable geometric dimensions
- High resistance to bending even at high temperature
- Engobe coating on demand to avoid sticking effects

Cordierite / Extruded Props - Casted Caps - Shoes

- Low thermal mass
- Long life-time
- Precise and stable geometric dimensions
- High resistance to loading

SiC Beams

- Low thermal mass
- Long life-time
- Precise and stable geometric dimensions
- Extremely high resistance to loading and bending

Cordierite / Casted Stools / Supports - Lavi Setters *

- Low thermal mass
- Long life-time
- High flatness, precise and stable geometric dimensions adapted to your products to support them ensuring a high level of compactness in your kiln
- High resistance to bending even at high temperature
- Engobe coating on demand, to avoid sticking effects

* Some setters are also available in Recrystallized SiC

Adequate compositions for Sanitaryware

Cordierite is a major component of Cordierite-Mullite kiln furniture. It has an extremely low coefficient of thermal expansion explaining the outstanding thermal shock resistance of these kiln furniture materials. The controlled combination of Mullite, as a high temperature resistant mineral and Cordierite, enables tailoring of material characteristics for a wide variety of firing profiles and application temperatures.

Characteristics	Materials
<ul style="list-style-type: none"> • High thermal shock resistance • High creep resistance • High mechanical resistance • Typical products: Batts, Supports 	S-CORIT A APTAKORIT CM1 APTAKORIT CME S-CORIT B APTAKORIT MH CORMULL C1 CORMULL C1E APTAKORIT HT

Mullite in combination with Corundum, is widely used as kiln furniture in the ceramic industry. A wide variety of Mullite-Corundum kiln furniture materials is commercially available, applied for firing ceramics in temperatures ranging from 1,380°C up to 1,700°C. We combine acute raw material selection and precise processing to produce kiln furniture materials with highest performances for standard and special applications.

Characteristics	Materials
<ul style="list-style-type: none"> • Typical products: Supports, Caps 	APTAMULL 60 KF25P APTAMULL 70
<ul style="list-style-type: none"> • Typical products: Rollers 	E59 KF25E

Silicon carbide products are developed to meet customers' needs. The use of high purity raw materials and precise process parameters ensure a high quality and consistency of IKF materials: high strength, even at high temperatures, low thermal expansion, very high thermal conductivity, corrosion resistance under highest temperatures, very high hardness and resistance to wear.

Characteristics	Materials
<ul style="list-style-type: none"> • Silicon infiltrated SiC The outstanding creep resistance at high temperatures allows heavy loads up to 1,350°C • Typical products: Beams 	SC 90S SC 90 GB
<ul style="list-style-type: none"> • Recrystallized SiC The outstanding creep resistance at high temperatures allows heavy loads up to 1,750°C depending on atmosphere • Typical products: Hand basin support 	SC 100RG
<ul style="list-style-type: none"> • Nitride bonded SiC The outstanding creep resistance at high temperatures allows heavy loads up to 1,550°C. Aptasinit provides excellent oxidation resistance • Typical products: Columns 	APTASINIT



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