

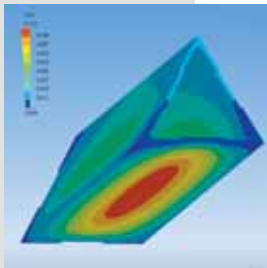
High Temperature Ceramic Materials For the Global Market

Saint-Gobain Ceramics: A World Leader in High Performance Materials

Saint-Gobain Ceramics is the world leader in high performance materials offering nearly 150 years of experience and the resources and technology from more than 10 years of strategic acquisitions.

Our worldwide team of application engineers, design engineers and material scientists combine refractory expertise with a universal commitment to technical excellence. We use our extensive mix of products and forming techniques, as well as advanced technical tools such as modeling software (solid, mechanical and thermal) to design custom systems for the most demanding applications in the ceramics, metallurgy, chemical, petrochemical, power generation, waste processing and glass making industries.

Saint-Gobain Ceramics keeps pace with rapid developments in the world market through technical leadership and innovation in all business areas. Using the most current production technologies and the latest construction software tools, we help meet our customers' challenges by providing:



- System solutions
- Customer-oriented concepts
- Tailor-made designs
- Finite Element Analysis
- Bar-code capability

Research and Development

At Saint-Gobain Ceramics, research and development (R&D) serves several objectives including improving quality, productivity, product performance and customer support, as well as protecting the environment by upgrading manufacturing processes. Our business is supported by three research centers:

- Northboro Research and Development Center, Northboro , MA, USA
- CRÉE, Cavaillon, France
- Research and Development Center, Rödental, Germany

Our R & D facilities are currently developing new materials and products using the following tools:

- Micro-probe and scanning electron microscopy
- X-ray diffraction for phase analysis
- X-ray radiography for non-destructive chemical analysis
- Particle size analysis
- Carbon, nitrogen and oxygen analysis
- Atmosphere firing to 2100°C
- Mechanical testing, creep tension and compression measurements



Advanced Materials for High Performance Applications

Our high temperature materials include recrystallized silicon carbide, advanced nitride-bonded silicon carbide, silicon-infiltrated silicon carbide and sintered-alpha silicon carbide. Our product trade names have become industry standards by which materials are specified, including:

■ Crystar®, Advancer®, AnnaSicon®, Silit® and Hexoloy®

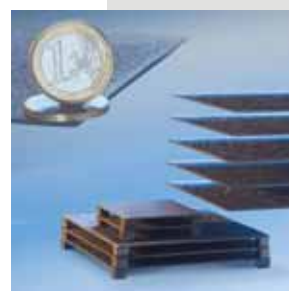
Saint-Gobain Ceramics offers a diverse family of recognized refractory materials that are respected throughout the ceramics market including:

■ AnnaCorit®, AnnaCarbid®, AnnaMullit®, AnnaCor®, Alundum®, Alfrax®, Mulnorite®, Mullfrax® and Zirnorite®

All our refractories are engineered for strength, thermal shock resistance, creep resistance, chemical compatibility, dimensional stability and minimal mass.

Saint-Gobain Ceramics Products

Saint-Gobain Ceramics develops products made of lighter, thinner, mechanically superior materials. These products have positive effects on the firing process in many applications and offer additional benefits like increased capacity, faster cycle time, higher service life and reduced reworking costs.



In addition to traditional markets like porcelain, sanitary ware and roof tile, our new application areas include silicon carbide filters, solar receivers, linings for the wear resistant market and products for the environmental field. We can manufacture products of any shape or size, custom fit to your application including:

- Plate setters and saggars
- Beams, rollers and tubes
- Lav setters and batts
- Spray nozzles, burner nozzles and radiant tubes
- Extremely large carrying elements
- Extremely thin plates
- Complete Lo-Mass® construction designs



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Customer Service and Support

All of our manufacturing facilities are ISO certified. We conduct regular customer satisfaction surveys since customer satisfaction is one of our most important principles. All Saint-Gobain Ceramics employees are trained and qualified to meet customer requirements. Saint-Gobain Ceramics has worldwide production facilities with a variety of machining capabilities to provide the solutions and service required for different applications.

Saint-Gobain Ceramics: Your Worldwide Resource

Saint-Gobain Ceramics offers worldwide service, technical expertise and successful solutions for demanding applications. For more information, contact the Saint-Gobain Ceramics location nearest you.