



# *Uniceram Advanced Materials, Inc.*

.....A provider of quality ceramic products.....





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## **Company Introduction**

Allow us to introduce our company, Uniceram Advanced Materials, Inc. a provider of quality ceramic products.

We have a wide array of products that serve a broad spectrum of industrial applications. Our products, typically, may be classified to four categories on basis of their end use:

- Insulators
- Wear Resistant Parts
- Porous Filters
- Refractory Products

Our core ability is the ability to customize and innovate. With the backing of the solid experience of our product development team, we are in a position to manufacture products as per our customer's pricing and technical requirements. For us, component geometry is not a restriction. As we say, if you can draw it, we CAN make it.

Uniceram Advanced Materials has dedicated manufacturing units at two locations around the world. Both these locations are ISO 9001 certified. Our expertise in supply chain management enables us to have the optimum quality at the optimum price.

We have been in this field for more than 25 years and have developed the technology indigenously, so have total mastery over managing the efficiency of the applications. We believe in adding competitive advantage to the client by enhancing the operational effectiveness of their processes.

Uniceram Advanced Materials is a quality conscious organization: All our vendors are ISO9001 Certified for their quality assurance in design, development, production and delivery. This shows our commitment to quality. We believe in setting very high standards to exceed the expectations of our customers.

If you have any queries about our products or need more information, feel free to contact us.

We look forward to having a long and a mutually beneficial business relationship with you. Count on us to deliver the best, always!

Thanks,

**The Uniceram Team**

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## Our Product Range:

### + **Wear Resistant Parts-**

- Textile and Wire Drawing guides
- Mechanical and Chemical Seals
- Alumina Grinding Media
- Yttria Stabilized Zirconia Microgrinding Media and Structural Ceramics
- Ceramic Coatings

### + **Insulators-**

- Resistor Casing
- Fuse Bodies
- Ignitors
- Heat Resistant Interlocking Beads

### + **Porous Filters-**

- Honey Comb Filters
- Acid Filters
- Vaporization wicks

### + **Refractory Materials-**

- Crucibles
- Ferrules
- Thermocouple Sheaths and other labware.
- Coil Supports
- Infra-Red Heaters
- Assay Testing Ceramics
- Ceramic Rollers for Tile Industry
- Refractory products for Steel, Iron, Glass and Cement Industry
- Water Ground Mica



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## **Ceramic Foam Filters**

For the castings and foundry industry, we offer three varieties of Ceramic Foam Filters: Alumina Foam Filters, Silicon Carbide Foam Filters and Zirconia Foam Filters. Compared with traditional filtering materials, our Ceramic Foam Filters offer high porosity (70%~95%), low loss of pressure, high specific surface area due to high porosity, high mechanical strength and chemical inertness which ensures no reaction with the molten metal being filtered in high temperature. The advantages include ease of operation, energy savings and low cost.



The applications include molten metal filtration, high temperature gas treatment, as a carrier of catalyst and as solid heat exchanger.



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## Alumina Foam Filters

These are typically used for purification of molten aluminum and aluminum alloys. This can be used without fear of failure upto as high as 1200°C. Typical characteristics include:

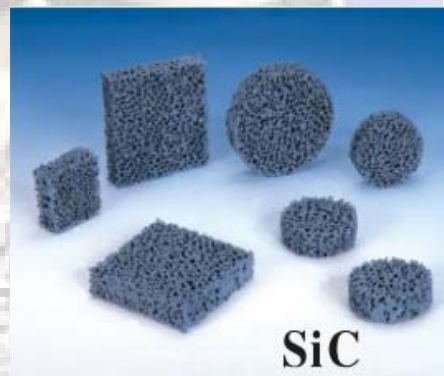
- a) Pure White color
- b) Application temperature:  $\leq 1,200^{\circ}\text{C}$
- c)  $\text{Al}_2\text{O}_3$  Content:  $\geq 65\%$
- d) Typically used in molten aluminum and alloy filtering
- e) Pore Size: 10 – 50 PPI



## Silicon Carbide

These are typically used to filter molten Iron and alloys. They can be used to temperatures as high as 1500 °C. Typical characteristics include:

- a) Gray-black color
- b) Application Temperature:  $\leq 1,500^{\circ}\text{C}$
- c) SiC Content  $\geq 50\%$
- d) Typically used in molten Iron and alloy filtering
- e) Pore Size: 10-35 PPI





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## Zirconia Foam Filters

These are used in molten steel and other alloys filtration. They can sustain very high temperatures up to 1700 °C. Typical characteristics include:

- a) Yellow color
- b) Application temperature:  $\leq 1,700$  °C
- c) ZrO<sub>3</sub> content  $\geq 70\%$
- d) Typically used in molten stainless steel and alloy filtration in precision molding.
- e) Pore Size: 10 to 35 PPI



**Typical sizes:** These products can be highly customized to have the sizes desired by the end user.

For any queries, please contact us at [uniceram@rediffmail.com](mailto:uniceram@rediffmail.com)

