FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

Fused Silica

Product Description:

Fused Silica is an excellent choice when high strength, volume stability, and thermal shock resistance are required. Our fused silica mix is engineered to provide maximum resistance to thermal shock in both kiln furniture and molten metal applications.

Applications:

Foundry Services' fused silica is an excellent choice for kiln furniture and thermal shock intensive environments up to 2400°F. Typical applications include transfer ladles for high alloy steel (it can be used in place of HYcor Alumina ladles without the need for a steel backing shell), molten aluminum riser tubes and stopper rods, molten metal troughs, and a variety of structural molten metal contact parts. Feel free to contact Foundry Service & Supplies to discuss compatability of fused silica in your most demanding high temperature applications.

Services:

Foundry Service and Supplies is a full-service fabricator with an unmatched reputation for quick turn-around and competitive pricing. We can easily handle any job for fabricated parts or stock sheets, from high production quantities to prototypes. Our quality and reliability make Foundry Service the best choice for all of your high temperature material requirements.

Property*	Units	Value
Bulk Density	lbs/ft^3 g/cm^3	122-130 1.9-2.1
Porosity	%	15-18
Modulus of Rupture (Room Temperature)	PSI MPa	1000-1500 6.9-10.3
Maximum Operating Temp. (Cycling to Room Temp.)	°F °C	2400 1316
Maximum Operating Temp. (Cycling Above 2000°F)	°F °C	2900 1590
Nominal Chemical Composition:		
SiO_2	%	72-76
Al_2O_3	%	21-25
Other	%	0-1

* The Fused Silica properties listed represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with your supplier to assure current information