



Sunrock Ceramics Company
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Technical Data Sheet

TSX Kiln Furniture Material

Sunrock TSX material is designed for use in very fast thermal cycles. The extremely low coefficient of thermal expansion provides exceptional thermal shock resistance so TSX may be a good material choice for certain rapid cycle kiln furniture applications within the use temperature limits.

Note: Lithium oxide is tied up in the ceramic structure therefore in most applications is not free to react.

Bulk Density (g/cc)	2.4
Porosity (%)	22%
Maximum Operating Temperature (°C)	1200
Thermal Expansion ($\times 10^{-6} / ^\circ\text{C}$)	2.7

Typical Chemical Analysis (%)	
Al ₂ O ₃	24.5
SiO ₂	71.6
Li ₂ O	3.5

Typical Physical Properties		
Thermal Conductivity (W/mK)	@1000°C	2.0
Modulus of Rupture (MPa)	@25°C	5

The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures, or estimates based on previous analysis of similar material. They are subject to normal variation and should not be used for warranty or specification purposes.