

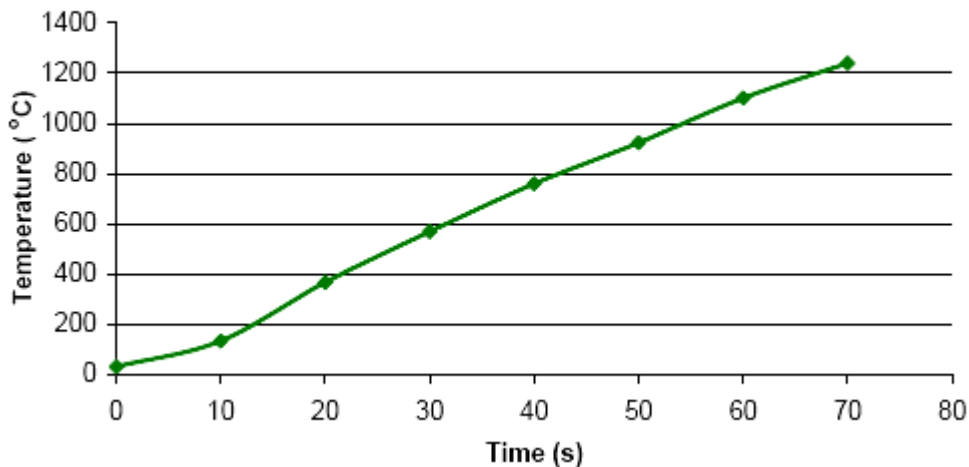
Silar[®] Microwave Absorbent Ceramics

Ceramic Products with Silar[®] Silicon Carbide Whiskers for Advanced Microwave Applications

Silar[®] Microwave Absorbent Ceramics are a unique class of materials composed of an engineered ceramic matrix containing Silar[®] Silicon Carbide Whiskers yielding a high-tech composite that heats rapidly in a microwave field, withstands very high temperatures, has high strength, toughness and crack resistance, and is thermal shock resistant. Silar[®] Microwave Absorbent Ceramics properties include:

- Rapid temperature rise: 1200 °C per minute is easily attainable
- Chemically inert and stable: Silar[®] is exceptionally stable and will not react with anything
- No arcing or sparking: Silar[®] will not arc or spark in a microwave field
- Functional at all frequencies: Silar[®] will heat equally well at 915 MHz and 2450 MHz
- No acceleration times: Silar[®] provides instant heat from room temperature up to service temperature without delayed acceleration times
- No runaway heat: Silar[®] absorbs consistently and evenly across all temperature ranges, eliminating the “runaway heat” problem in other materials having increased dielectric loss tangents as temperatures rise.

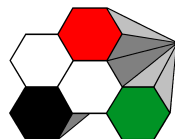
Time vs. Temperature
915 MHz Radiation at 700 watts



Silar[®] Microwave Absorbent Ceramics have a wide range of applications in the microwave arena, including:

- Microwave cooking, food processing, and cookware
- Industrial microwave heating
- Microwave drying and curing of low-water content materials
- Microwave melting of metals
- Safety and control devices for microwave ovens

Contact us to learn more about Silar[®] Microwave Absorbent Ceramics and how they can benefit your application.



**Advanced
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