

High-temperature thermal insulation RF and Microwave Transparent Radom Material

(AEM-HT-1425)

Product Description:

High-temperature, high performance thermal insulation RF transparent Radom material provides effective thermal management to protect electronic device, circuitry and antenna with High Temperature environment. AEM-HT-1425 are used to protect equipment and people, conserve energy, reduce emissions to deliver a more sustainable operational process in some of the most demanding environments in the world.

AEM-HT-1425 material is RF and microwave transparent so it is us frequently in Radom application and its thermal conductivity is very low \sim 0.25 W/mk so it can withstand or protect from high temperature.

Our material is made with alumina-silica-zirconia and Mullite Composition so its Thermal expiation cofficent is also best it can withstand upto 1430°C (2600°F).

Features:

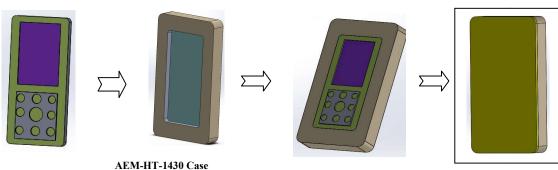
- Excellent insulating performance upto 1430°C (2600°F).
- Excellent material for Radom application due to low dielectric constant and ultra low loss properties.
- Low heat storage
- > Tough, resilient and strong, which resist tearing both before and after heating
- > thermal shock Resistance
- Good electromagnetic properties
- No smoke emission during high temperature operation.

Applications

- Power generation plants
- Industrial and Commercial
- Consumer goods
- heater insulation from electronic accessory
- > Telecom industry
- Hot work industry

Technical specification

Properties	AEM-HT-1425
Colour	White
Max Temperature, °C	➤ 1400
Continuous Use Temperature, °C	➤ 1300
Melting Temperature, °C	▶ 1700
Density, kg/m3	➤ 100
Operating Frequency	➢ 9KHz to 10GHz
Dielectric constant	▶ 1.57
Loss tangent	▶ 0.02
Thermal conductivity W/mk	> 0.23
Thickness	> 5mm/10mm/25mm
Coefficient of Thermal Expansion	> 5.4 X10-6/°C



Electronic Device

EM-H1-1450 Case

AEM-HT-1430 Case + electronic Device

AEM-HT-1430 Case + electronic Device + Radom Cover

