**Genable® 4300**

**PRODUCT DESCRIPTION**
Thermally conductive resin paste system. Genable® 4300 is an A-GNP filled two part epoxy system designed for use in thermal conductive applications, either directly as a paste gap filling system or as a potential base additive to other formulated systems. Use within formulations for bonding, potting, sealing and encapsulation for Space, Electronics and Automotive components.

**PRODUCT DESCRIPTION**
- High thermal conductivity (> 3 W/(m·K) )
- Stable from agglomeration and sedimentation (as supplied)
- Ease of application and mixing
- Good adhesion and lap shear properties
- Long shelf life (12 months)

**PRODUCT INFORMATION**
2 Part Epoxy
- Part A: 4300R (epoxy)
- Part B: 4300H (amine hardener)

**Appearance**
- 4300R: Dark grey
- 4300H: Clear liquid

**Viscosity**
- 4300R: Moderate paste
- 4300H: 30mPa.s @ 20°C

**Mix Ratio**
100 : 14.6

**Kit Size**
- 4300R: 200g
- 4300H: 30g

**Curing Time (5°C to 25°C)**
4 days

**(For alternative conditions, contact AGM)**

**Appearance (Cured)**
Dark grey

**Density (Cured) (g/ml)**
1.30 – 1.40

**Lap Shear Strength (MPa)**
> 5.5

**Thermal Conductivity (W/(m·K))**
> 3

**Shelf Life**
12 months

**MIXING INSTRUCTIONS**
Weigh out the required amount of Genable® 4300R. Genable® 4300H should be added at 14.6 parts per 100 parts of Genable® 4300R and mixed thoroughly until there is no streaking apparent and the Genable® 4300H is fully incorporated to create a homogeneous paste.

**NB.** If is to be used as an additive to other material formulations, please contact AGM Technical Staff for further information as particle stability and mixing instructions may change.
STORAGE

Store in ambient conditions for up to 12 months. Dispersion may show slight sedimentation during transportation or storage. User may need to re-agitate by mixing thoroughly with spatula, palette knife or mechanical stirrer before use.

Product should be stored at room temperature in the original containers kept tightly closed. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container sealed until ready for use.

SAFETY

Wear appropriate PPE. Use the minimum quantity of product required for a particular process. Use only in well-ventilated areas, preferably in an enclosed system. Provide appropriate exhaust ventilation at places where aerosols/dust may be formed. Handle and open container with care. Keep in the original container or an approved alternative made from a compatible material. Always close containers tightly after removal of the product. Empty containers retain product residue and can be hazardous. Do not re-use container. Dispose of materials in accordance with local regulations. Safety Data Sheet available on request.