

**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.

- High thermal conductivity -  $>3W/(m.K)$
- Stable dispersion, free from agglomeration and sedimentation
- Ease of application and mixing
- Very low density
- Good adhesion and lap shear properties
- Long shelf life – 12 months

**PRODUCT INFORMATION**

<b>2 Pack Epoxy System</b>	Part A: 4300R (Epoxy dispersion) Part B: 4300H (Amine Hardener)
<b>Appearance</b>	Part A: 4300R: Dark grey paste Part B: 4300H: Clear liquid Cured System: Dark Grey
<b>Viscosity</b>	Part A: 4300R: Mid-viscosity paste Part B: 4300H: 30mPas.s @ 20°C
<b>Mix Ratio</b>	100 (4300R) : 10.1 (4300H)
<b>Density - Cured (g/ml)</b>	1.30 – 1.40
<b>Curing Time (5°C to 25°C)</b> <small>(For alternative curing conditions, contact AGM)</small>	4 days
<b>Lap Shear Strength (MPa)</b>	>5.5
<b>Thermal Conductivity (W/(m.K))</b>	>3
<b>Standard Sample Kit Size</b>	Part A: 4300R: 250g Part B: 4300H: 25g
<b>Shelf-Life</b>	12 Months

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## MIXING INSTRUCTIONS

Weigh out the required amount of **Genable 4300R**. **Genable 4300H** should be added at 10.1 parts per 100 parts of **Genable 4300R** and mixed thoroughly until the **Genable 4300H** is fully incorporated to create a homogeneous paste.

**Note:** If the **Genable 4300** dispersion is to be used as an additive with other material formulations, please contact AGM Technical Staff for further information as particle stability and mixing instructions.

## USAGE

Please stir well before use. The dispersion may develop slight sedimentation during transport or storage. If this is the case the dispersion can be recombined by mechanical mixing.

This dispersion is produced using AGM's proprietary manufacturing processes. The product is optimised to be incorporated into industry systems under medium shear. Please ensure that following the addition of the dispersion the system is fully homogenised.

## STORAGE

Store in accordance with local regulations. The product should be stored in the original container, at room temperature (ideally, >20°C), in a dry, well-ventilated location away from direct sunlight. Keep away from incompatible materials and food and drink. Keep the container tightly sealed.

## 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 the 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 the container. Dispose of materials in accordance with local regulations. Material Safety Data Sheet (MSDS) available on request

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