

Provisional Data Sheet

Genable[®] Dispersion - enabling the incorporation of graphene nanoplatelets into your formulation.

PRODUCT DESCRIPTION Genable[®] X1400 is a formulation ready dispersion of graphene nanoplatelets stabilised in epoxy resin (EEW = 190g/eq.)

PRODUCT INFORMATION

| | |
|----------------------------------|------------------------------|
| Appearance | Black liquid |
| Matrix | Epoxy resin (EEW = 190g/eq.) |
| Graphene Content (wt/wt%) | 15 |
| Density (g/ml) | 1.20 – 1.45 |
| Viscosity (Pa.s) | 30 - 50 |
| Particle Size (D90) | < 25 microns |
| Shelf Life | 12 months |

USAGE The graphene nanoplatelets dispersion are produced using AGM's proprietary manufacturing processes. The products are optimised to be incorporated in to industry systems under medium shear. Please ensure that following the addition of the graphene nanoplatelet dispersion is system is fully homogenised.

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

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

If the Genable[®] X1400 crystallises on storage, the product can be restored to its original condition by warming to 55 – 65°C, with stirring.

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.

You will follow any instructions and all applicable guidelines, laws, regulations, government agency guidelines and best industry practice regarding the use, transport, security, and disposal of the products. All statements and technical information contained in this data sheet are given in good faith and are based on information believed to be reliable, but their accuracy and completeness are not guaranteed and no representation or warranty (express or implied) is given. Any statements and technical information do not constitute an offer to any person and do not form the basis of any contract. All products are sold subject to Universal Matter's standard terms and conditions of sale. The user will determine the suitability of the products for their intended use prior to purchase and will assume all risk and liability (to the fullest extent permitted under applicable law) in connection with that purchase and intended use. It is the responsibility of those wishing to sell items made from or using the products to inform other users of the properties of the products and the purposes for which they may be suitable, together with all precautionary measures required in handling those products. The information in this datasheet is under constant review and subject to ongoing modification, however, Universal Matter shall be under no obligation to notify the user of any modifications made.