



THE STRESS FREE BONDING



Proudly made in India

TECHNICAL DATA SHEET

ESSRBOND 223 (Heat Sink Thermal Paste)

EB/TDS/021, Date : Nov - 2022

DESCRIPTION

ESSRBOND 223 is a heat transfer compound which is formulated with polydimethyl siloxane fluids in combination with metal oxides to provide superior thermal conductivity. It is designed to be used as a heat transfer paste in the electric and electronics industries.

FEATURES

- ◆ Good Thermal conductivity
- ◆ High Dielectric Constant
- ◆ High dissipation factor
- ◆ Good Insulation
- ◆ Stable at high temperatures
- ◆ Easy to apply
- ◆ Non drying
- ◆ Non Toxic
- ◆ Non corrosive

TECHNICAL PROPERTIES

| PROPERTIES | RESULT | UNIT |
|----------------------------|---------------|---------------------|
| Density at 30 ± 2°C | 2.0 ± 0.3 | g/cc |
| Weight loss at 200 ± 5°C | > 5.0 | % |
| Viscosity at 30°C | 55000 - 80000 | cP |
| Thermal Conductivity | 0.75 | W/ m-k |
| Insulation Strength°C | > 4.5 | in ² / w |
| Dielectric Constant @100Hz | 4.6 | kV / mm |
| Application Temperature | 10 to 40 | °C |
| Service Temperature | -50 to + 200 | °C |
| Short Exposure | 270 | °C |

HOW TO USE

Surfaces to be adhered or sealed should be free of dirt, oil and other contaminants. For optimum performance, clean the surface with a solvent such as isopropyl alcohol or methyl ethyl ketone acetone or with lint-free cloth.



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APPLICATION

The material may be applied by brushing, spraying, or dabbing the product on the surface to be lubricated or sealed thickness. Excess material can be easily wiped away with a dry cloth or non - polar solvents

STORAGE

Material should be stored in a cool and dry place. Temperature of storage should between 5°C To 30°C

SHELF LIFE

12 Month from the production month when it is stored in the above condition in the unopened container

PACKING

500g / 1 kg in HDPE container or 25 kg

NOTE

The company's products are sold subject to the Company's standard terms and conditions of sale. Products are warranted against defective materials and workmanship. The company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.