

# DVB-1800

## Non-solvent-based insulation varnish



DVB-1800 is a superior insulating varnish for impregnation that mainly consists of epoxy resin. It features outstanding adhesiveness and heat resistance. Especially, it has excellent thermal shock resistance.

### Usage

For impregnation of medium- and large-sized motors and transformers

### Specification

Type of varnish	One-component epoxy resin		
Product Features	1. It features outstanding adhesiveness. 2. It features outstanding heat resistance. (Type F: 155 °C) 3. It is a VOC-free product. 4. It features outstanding adhesiveness.		
Thinner	None	Pot time (40 °C)	60 days
Exterior	Light yellow liquid		
Viscosity	7 - 10 POISE	Curing conditions	At least 4 hours at 150 °C
Specific gravity	1.13 ± 0.02	UL-certified	Not certified
Gel time (120 °C)	30 - 40 min.	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	One-component	Shelf life	3 months from the manufacturing date (when storage conditions are met)

### Product Properties (Physical Property Data)

Breakdown voltage	Above 20 KV/mm
Volume resistivity	At least $1.0 \times 10^{13} \Omega\text{cm}$
Glass transition temperature	Above 120 °C
Adhesiveness (25 °C)	Above 20 Kgf (Helical coil method)

### How to Use

How to Use	1. Mix evenly after adding the substances according to the designated mixing ratio. 2. Defoam with vacuum to eliminate air pockets. 3. Inject well-mixed epoxy to the substrate. 4. Dry according to the designated curing conditions.
Caution	1. Instructions above may vary depending on the type of substrate and the painting line conditions. 2. Please refer to the MSDS when handling the product.

► The data shown above were obtained under the laboratory conditions, and the product properties may vary depending on work method and circumstances. Please refer to the property data listed above only as reference.