

DW-102

Solvent-based insulation varnish



DW-102 is an insulating varnish for impregnation that mainly consists of alkyd resin. It features type B (130 °C) heat resistance. This product is for impregnation of general motors and dries quickly. It is an insulating varnish suitable for impregnation of various transformers and motors of large-to-small sizes.

Usage

For impregnation of general motors and transformers

Specification

Type of varnish	One-component alkyd resin		
Product Features	1. It features outstanding drying performance. 2. It does not erode enamel lines. 3. It features outstanding rust resistance.		
Thinner	DTE-8303	Storage stability (room temperature)	Over 6 months
Exterior	Transparent liquid		
Viscosity	1.0 - 1.7 POISE	Curing conditions	2 - 4 hours at 120 - 130 °C
Specific gravity	0.98 ± 0.02	UL-certified	Not certified
Curing time	Within 30 minutes (TIN plate, 120 °C)	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	Base : Thinner = 100 : 20 - 50 (Weight)	Shelf life	6 months from the manufacturing date (when storage conditions are met)

Product Properties (Physical Property Data)

Breakdown voltage	Above 7 KV (Twist Pair method, MW-5 Coil)
Volume resistivity	At least $1.0 \times 10^{14} \Omega\text{cm}$

How to Use

How to Use	1. Mix evenly after adding the substances according to the designated mixing ratio. 2. Preheat the substrate at 80 - 120 °C for 10 - 30 minutes to eliminate cutting oil and debris from the substrate. 3. Maintain the surface temperature of the substrate at 40 - 50 °C. 4. Impregnate it in well-mixed varnish for 2 - 5 minutes. (Impregnation in the vacuumed state can increase the penetrance.) 5. Leave until the varnish does not fall off from the substrate (10 - 30 minutes at room temperature). 6. Dry according to the designated curing conditions.
Caution	1. When the varnish temperature is high, there is a risk of varnish turning into gel. So maintain the varnish temperature inside the tank at below 30 °C. 2. Instructions above may vary depending on the type of substrate and the painting line conditions.

► 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.