

DVB-2122S

Non-solvent-based insulation varnish



DVB-2122S is an insulating varnish for impregnation that mainly consists of unsaturated polyester resin. It features outstanding adhesiveness and electrical properties. This product features type F (155 °C) heat resistance and is suitable for impregnation of high speed rotors in medium-sized motors.

Usage

Impregnation of medium-sized motors and armatures

Specification

Type of varnish	Two-component unsaturated polyester resin		
Product Features	<ol style="list-style-type: none">1. It features outstanding heat resistance. (Type F: 155 °C)2. It features outstanding rust resistance.3. It features outstanding electrical properties.4. It features outstanding adhesiveness.5. It features outstanding compatibility with magnet wires.		
Thinner	DTB-7302	Storage stability (40°C) (A + B)	Over 7 days
Exterior	Transparent light brown		
Viscosity	1.2 - 3.0 POISE	Curing conditions	2 - 4 hours at 120 - 140 °C
Specific gravity	1.10 ± 0.02	UL-certified	Not certified
Gel time (120 °C)	3 - 5 min.	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	A : B = 100 : 1 (Weight)	Shelf life	6 months from the manufacturing date (when storage conditions are met)

Product Properties (Physical Property Data)

Breakdown voltage	Above 9 KV (Twist Pair method, MW-5 Coil)
Volume resistivity	At least $5.0 \times 10^{15} \Omega \text{cm}$

How to Use

How to Use	<ol style="list-style-type: none">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	<ol style="list-style-type: none">1. Liquid B (hardener) is sensitive to heat. So store it in a refrigerated space.2. 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.3. 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.