

DVB-2085(C)

Non-solvent-based insulation varnish



DVB-2085(C) is an insulating varnish for impregnation that mainly consists of epoxy resin and features type B heat resistance. This insulating varnish for impregnation can dry at low temperature (130 °C) and features stable storage property, making it suitable for impregnation of LVT and switching transformers.

Usage

Impregnation of LVT and switching transformers

Specification

Type of varnish	Two-component epoxy resin		
Product Features	<ol style="list-style-type: none">1. It can be cured at low temperature.2. It is a type B (130 °C) UL-certified product.3. It features outstanding adhesiveness to cores and tapes.4. It is registered in the UL system.		
Thinner	DTE-2085	Storage stability (A + B)	25 °C: Over 5 days
Exterior	Transparent light yellow		40 °C: Over 4 days
Viscosity	A: 7 - 11 CPS, B: 1 - 3 CPS	Curing conditions	1 - 2 hours at 120 - 130 °C
Specific gravity	A: 0.94 ± 0.02, B: 0.89 ± 0.02	UL-certified	Type B (130 °C)-E93947
Gel time (110°C)	80 - 100 min.	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	A : B = 100 : 100 (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-80 Coil)
Volume resistivity	At least $1.0 \times 10^{14} \Omega\text{cm}$

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. Impregnate until air pockets no longer rise from the substrate (at least 5 minutes at the atmospheric pressure). (Impregnate for at least 2 minutes in vacuum when it is difficult to impregnate the insulating paper and tape to the transformer due to structural reasons.)3. Leave until the varnish does not fall off from the substrate (less than 30 minutes at room temperature).4. Dry according to the designated curing conditions.
Caution	<ol style="list-style-type: none">1. Liquid B (Hardener) is sensitive to moisture. So store it in a dry and cool indoor 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.