

# DVB-2152(#)

## Non-solvent-based insulation varnish



DVB-2152(#) is an insulating varnish for impregnation that mainly consists of unsaturated polyester resin. It obtained the UL Type N (200°C) certification. This product includes silica and features outstanding adhesiveness, heat resistance, electrical properties, and thermal conductivity. Especially, it is suitable for impregnation of microwave HVT which requires high heat resistance.

Usage

For impregnation of microwave HVT

### Specification

Type of varnish	Two-component unsaturated polyester resin		
Product Features	<ol style="list-style-type: none"><li>1. It features outstanding heat resistance. (Type N: 200 °C)</li><li>2. It features outstanding rust resistance.</li><li>3. It features outstanding electrical properties.</li><li>4. It features outstanding adhesiveness.</li><li>5. It features outstanding thermal conductivity.</li></ol>		
Thinner	DTB-7302	Storage stability (40°C) (A + B)	Over 7 days
Exterior	Amber liquid		
Viscosity	1.6 - 2.0 POISE	Curing conditions	1 - 2 hours at 150 - 160 °C
Specific gravity	1.28 ± 0.02	UL-certified	Type N (200 °C)-E93947
Gel time (120 °C)	3 - 5 min.	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	A : B = 100 : 1.4 (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-35 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"><li>1. Mix according to designated mixture ratio and apply evenly.</li><li>2. Preheat the basis material at 80 - 120 °C for 10 - 30 minutes to eliminate cutting oil and debris.</li><li>3. Maintain the surface temperature of the basis material at 40 - 50 °C.</li><li>4. Impregnate in well-mixed varnish for 2 - 5 minutes. (Vacuumed impregnation can increase infiltration rate)</li><li>5. Leave until the varnish doesn't fall of the basis material (10 - 30 minutes at room temperature)</li><li>6. Dry according to designated hardening conditions.</li></ol>
Caution	<ol style="list-style-type: none"><li>1. Liquid B (Hardener) is sensitive heat so store refrigerated.</li><li>2. When the varnish temperature is high, there is risk of varnish turning into gel so please maintain the varnish temperature inside the tank below 30 °C.</li><li>3. Instructions above may vary depending on type of basis material and line conditions.</li></ol>

► 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.