DVB-5300

Non-solvent-based insulation varnish

DVB-5300 is an insulating varnish for motors developed for impregnation and dripping of automobile starter motors. This varnish mainly consists of an epoxy resin that can be cured with acid anhydride and has high heat resistance (type H) as well as long pot life and outstanding electrical properties.

Usage	Dripping for automobile starter motors and armatures		
Specification			
Type of varnish	Triple-component epoxy resin		
Product Features	 It features outstanding heat resistance. (Type H: 180°C) It features outstanding electrical properties. It features outstanding adhesiveness. It features outstanding compatibility with coil. It features outstanding wear resistance due to high Tg. 		
Thinner	None	Storage stability (40°C) (A + B + C)	Over 2 days
Exterior	A/B/C: Lemon yellow / Light yellow / No color		
Viscosity	A/B/C: 20 - 50 / 0.2 - 0.4 / Below 0.1 POISE	Curing conditions	At least 1 hour at 150 - 160 ℃
Specific gravity	A/B/C = 1.16/1.21/0.96	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 : C = 100 : 20 : 0.3 (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 1.0 $ imes$ $10^{14}~\Omega cm$		
How to Use			
How to Use	 Mix evenly after adding the substances according to the designated mixing ratio. Preheat the substrate at 80 - 120 °C for 10 - 30 minutes to eliminate cutting oil and debris from the substrate. Maintain the surface temperature of the substrate at above 100 °C. 		
	4. Rotate the substrate and drip the evenly mixed varnish using a nozzle.		
	5. Rotate the substrate until the varnish does not drop any longer, and dry it according to the designated curing conditions.		
Caution	1. Liquid B (Hardener) is sensitive to moisture. So store it in a dry and cool indoor space.		
	2. Liquid C (Hardener catalyst) is sensitive to heat. So store it in a refrigerated space.		
	3. 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 $^{\circ}$ C.		
	4. 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			

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