

Product Information

B-277-2

Air Dry Solvented Varnish
Electrical Insulation system
Dip & Bake



E314793

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Product Description

Elantas Zhuhai B-277-2 is a solvented, alkyd resin based, air-drying, up to class '180°C' varnish with excellent electrical properties, good tank stability and anti-tracking qualities and incorporating a "user friendly" fungicide.

B-277-2 gives a bright surface finish, excellent protection against leakage currents and is particularly useful for protecting metal surfaces against oxidation.

B-277-2 is an ideal impregnant for small transformers and coils where a rapid air-drying film is required. This product is not recommended for the impregnation of deep section windings.

B-277-2 is compatible with most insulation systems, has good chemical and water resistance, has a thermal ratings from 130°C to 180°C and is **UL listed under the Underwriters Laboratories OBOR2 File E314793 volume 3.**

Areas of Application

The preferred applications for B-277-2 series are via conventional dip and bake application for:

- Stators
- Transformers
- Coils

Please note that this product is not recommended for the impregnation of deep section windings.

Processing

B-277-2 is generally suitable for impregnating components at ambient temperatures. Coated components can, however, be forced dried at elevated temperatures up to a maximum of 110°C.

Cure characteristics

25°C	60-120 minutes
110°C	25-35 minutes

It is essential to ensure that tanks and containers of B-277-2 remain sealed or well covered to minimise solvent loss and retain storage stability.

The viscosity of B-277-2 should be monitored regularly with reference to the Viscosity - graphical representations are available upon request.

Elantas Zhuhai X2 or S002 are the recommended solvents for viscosity modification purposes and is available from Elantas Zhuhai. Thinning with other low cost solvents can be performed following suitability analysis by the ELANTAS Zhuhai technical service department.

Packaging

B-277-2 is currently sold in 15kg & 160kg containers for ease of use.

Health & Safety

Refer to Elantas Zhuhai Material Safety Data Sheet (MSDS) for B-277-2.

Shelf life

12 months (in unopened containers stored under 25°C).

Properties of component as supplied

Properties	Test Method	Typical Value
Appearance	Visual Inspection	Clear / Brown Liquid
Viscosity @ 25° C	ISO 3219 EEIZ-WI/RD 05.006	45-100 cps
Solid Content	ISO 3251 EEIZ-WI/RD 05.003	34-36%
Glass Cure @Room temperature	IEC 60464 EEIZ-WI/RD 05.001	< 15min
Flash point		22°C
Shelf life		12 months

Electrical properties in cure condition

Dielectric strength	As made	IEC 60464 EEIZ-WI/RD 05.037	4100 V/MIL
	24h in water		3000 V/MIL

Thermal Properties

Thermal Class	(ASTM D3251)	CLASS B (130°C)
		CLASS F (155°C)
		CLASS H (180°C)

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