

Product Information

VIKING V1630FS CLEAR



Air Dry Solvented Varnish
Electrical Insulation system
Dip & Bake / Spray / Brush



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Product Description

VIKING V1630FS CLEAR is a very fast setting, clear air dry, vinyl toluene, vegetable oil, modified insulating varnish. It is thinned with low polarity thinner and can therefore be used with all types of enameled magnet wire. It has minimal effect on electrical tapes.

VIKING V1630FS CLEAR has good solvent, water and ultra-violet light resistance. Because it is thermoplastic, it can be soldered without removing the film in printed circuit and other applications.

VIKING V1630FS CLEAR gives a bright surface finish, excellent protection against leakage currents and is particularly useful for protecting metal surfaces against oxidation. It is compatible with most insulation systems and has good chemical and water resistance.

Having the same resin and solvent base, VIKING V1630FS CLEAR can also be supplied in clear and black versions - VIKING V1630FS CLEAR Black is used for applications where resin visibility / aesthetic finishes are required.

VIKING V1630FS CLEAR is UL recognised in file number E314793 and has the many associated insulation systems ranging from class A to class H - please contact Elantas Zhuhai Technical Service for more information.

Areas of Application

The preferred applications for V1630FS series are via conventional dip and brush / spray application for:

- Stators
- Transformers
- Coils
- Printed Circuit Boards

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

Processing

VIKING V1630FS CLEAR is mainly used for impregnating components at ambient temperatures. Coated components can, however, be forced dried at elevated temperatures up to a maximum of 60 - 80°C.

Application of VIKING V1630FS CLEAR can be by dip, flood, spray or brush.

It is essential to ensure that tanks and containers of VIKING V1630FS CLEAR remain sealed or well-covered to minimise solvent loss and retain storage stability.

The viscosity of the VIKING V1630FS CLEAR series should be monitored regularly with reference to viscosity versus temperature graphical representations which are available upon request from ELANTAS Zhuhai technical service.

Packaging

VIKING V1630FS CLEAR is currently sold in 15kg & 160kg containers for ease of use.

Health & Safety

Refer to Elantas Zhuhai Material Safety Data Sheet (MSDS).

Shelf life

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

Properties of component as supplied

Properties	Condition	Test Method	Typical Value
Appearance	-	Visual Inspection	Clear Brown Liquid
Viscosity	1-60-25°C	ISO 2555 EEIZ-WI/RD 05.007	30-70 mPa•s
Solid Content	1.5-3-135°C	ISO 3251 EEIZ-WI/RD 05.003	36-38 %
Density	25°C	ISO 2811 EEIZ-WI/RD 05.002	0.77-0.84 g/ml
Glass Cure	25°C	EEIZ-WI/RD 05.024	<15 minutes

Mechanical Properties in cure condition

Properties	Condition	Test Method	Typical Value
Bond Strength	25°C	IEC 61033 EEIZ-WI/RD 05.053	107 N
	100°C		15 N

Dielectrical Properties in cure condition

Properties	Condition	Test Method	Typical Value
Dielectrical Strength after water immersion	As made	IEC 60464 EEIZ-WI/RD 05.037	130 kV/mm
	24h storing		90 kV/mm

Chemical Properties

Dip Tank Stability	Good
Compatibility With Wire Enamels and Tapes	Good
Solvent Resistance	Excellent
Including fluorocarbons)	(If cured 30minutes 135°C)
Moisture resistance	good
Uv light resistance	good
Solderability	good

Thermal Properties

Temperature Class	Class A (105°C)
	Class B (130°C)
	Class F (155°C)
	Class H (180°C)

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