PRODUCT INFORMATION

ULTIMEG 2000 250H
EPOXY-PHENOLIC
IMPREGNATING
MILD SOLVENT
FREON RESISTANT
CLASS H (180°C)

ULTIMEG 2000 250H FREON RESISTANT EPOXY IMPREGNATING VARNISH

GENERAL DESCRIPTION
ULTIMEG 2000 250H is a phenolic modified epoxy varnish, which produces tough chemically resistant insulating films with good bond strengths at all operating temperatures up to Class ‘H’ (180°C). The material is based in a high flash point, mildly irritant solvent that removes it from flammability classification for supply and transportation at ambient temperatures. The varnish gives excellent penetration into windings with clean drainage and low secondary drainage properties. The cured product has exceptional resistance to chemicals and moisture. The varnish is suitable for use in hermetic and semi-hermetic systems containing Arcton and Freon refrigerants including R21, R22, R23, R32 ,R125 , R134a, R407C, mineral oil and ester oil.

APPLICATION
A speciality product specifically designed for impregnation of hermetic and semi-hermetic pump motors where Freon resistance is essential.

SPECIFICATION:
VISCOSITY 85 - 105 secs BS 3900 pt A6 B4 flow cup at 25°C
NON-VOLATILE CONTENT 29 - 33%
SPECIFIC GRAVITY 0.98 – 1.02
FLASHPOINT 64°C
SHELF LIFE 18 months at 20°C

PROCESSING
METHOD - Cold or hot dip
VISCOSITY - Cold Dip Hot Dip
-As supplied-
REDUCER - AEV ULTIMEG 2000/ TDAA

NOTE: Due to the introduction of improvements from time to time the right is reserved to supply products that may differ slightly from those illustrated or described in this publication.
ULTIMEG 2000 250H

WORKSHOP PRACTICE
Varnish in impregnating tanks should be checked for viscosity on a regular basis to ensure consistent impregnation.
A temperature/viscosity graph is available on request.
Keeping the tank lidded when not in use can reduce solvent loss from the tank.
Regular additions of fresh varnish to the tank are recommended to maintain stability.

Tank samples will be analysed free of charge by our laboratories.
The cure time chosen for impregnation is dependent on the size and type of component, and the oven efficiency. Typical figures are given.

Windings should be preheated to relieve stresses in wire enamel.

IMPORTANT it is necessary to use an initial low bake of two hours to 100°C to prevent bubbling before curing at the higher temperatures below.

CURE SCHEDULE

| TIME (hours) | 10  | 8  |
| TEMPERATURE (°C) | 150 | 160 |

PROPERTIES OF CURED VARNISH

| BOND STRENGTH | 20°C | 140 lbs (63.5 kgs) | 155°C | 46 lbs (20.9 kgs) |

| BREAKDOWN VOLTAGE | 20°C | 4250 v/mil |
| 90°C | 3820 v/mil |
| 24 hr immersion in sea water | 3500 v/mil |

FLEXIBILITY Pass 6mm (1/4") mandrel

HEALTH & SAFETY
Refer to Material Safety Data Sheet available.

PACKAGING
210 ltr, 25 ltr, 5 ltr