



PRODUCT INFORMATION
ULTIMEG 2000/370

ISOPHTHALIC POLYESTER
QUICK CURE
TOUGH AND FLEXIBLE
HIGH FLASH POINT
CLASS H (180°C)

ULTIMEG 2000/370 H.F. QUICK CURE POLYESTER IMPREGNATING VARNISH

GENERAL DESCRIPTION

ULTIMEG 2000/370 is a high flash, modified isophthalic alkyd, which produces tough resilient insulating films with good bond strengths at all operating temperatures up to Class H (180°C). The varnish gives excellent penetration into windings with clean drainage and low secondary drainage properties, which together with its quick curing characteristics and the ability to cure at lower temperatures, allow operators maximum versatility in processing. The cured product meets BS 5629 and DEF 31a specifications, gives exceptionally good resistance to moisture and insulating oils, together with the certainty a full cure in the deeper sections of windings. Good flexibility is shown around fly leads, and compatibility with all normal insulating systems is achieved.

APPLICATION

A quality general-purpose varnish for impregnation of transformers. Chokes, relays and fields, together with most types of electric motors.

SPECIFICATION:

VISCOSITY	110 - 130 secs BS 3900 pt A6 B4 flow cup at 25°C
NON-VOLATILE CONTENT	48 - 52%
SPECIFIC GRAVITY	0.98 - 1.00
FLASHPOINT	43°C
SHELF LIFE	18 months at 20°C

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.

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TECHNICAL BULLETIN
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PROCESSING

METHOD	-	Cold, hot dip or vacuum impregnation		
VISCOSITY	-	<u>Cold Dip</u>	<u>Hot Dip</u>	<u>Vacuum</u>
		70-90 secs	-As supplied-	
REDUCER	-	AEV ULTIMEG 2000/ T4 & T3		

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.

Solvent loss from the tank can be reduced by keeping the tank lidded when not in use.

The inclusion of a condenser and trap is recommended when vacuum techniques are applied.

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.

CURE SCHEDULE

TIME (hours)	8	6	4	3	2	1
TEMPERATURE (°C)	105	115	120	130	140	150

PROPERTIES OF CURED VARNISH

BOND STRENGTH	20°C	135 lbs	(61.4 kgs)
	155°C	22 lbs	(10.0 kgs)

BREAKDOWN VOLTAGE	20°C	2350 v/mil
	90°C	1810 v/mil
	24 hr immersion in sea water	1350 v/mil

FLEXIBILITY Pass 5mm (3/16") mandrel

HEALTH & SAFETY

Refer to Material Safety Data Sheet available.

PACKAGING

210 ltr, 25 ltr, 5 ltr

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