

## Product Information

### ISONEL 885

Solvent Impregnating Varnish  
Electrical Insulation System  
Dip & Bake



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## Product Description

**ISONEL 885** is a fast curing, modified polyester varnish designed for use in systems containing PVC lead wires or other temperature sensitive components. It may also be used as a general purpose insulating varnish in applications where its significantly lower cure temperature or faster curing cycle would be an advantage. Designed for conventional dip and bake applications. **ISONEL 885** cures to a clear, tough, semi-rigid film for use in Class A (105°C) through Class H (180°C) systems.

## Areas of Application

**ISONEL 885** is recommended for use on transformers, stators and rotating parts, especially those with temperature sensitive components.

## Approvals

**ISONEL 885** have got UL recognition, its UL OBOR file number is E314793.

## Processing

**ISONEL 885's cure cycle is recommended as below:**

230-300°F (110-149°C), cure for 1-4 hours  
The actual cycle depending on oven efficiency and the weight and shape of the treated unit.

## MAINTENANCE

**ISONEL® 885** exhibits excellent storage stability. Its viscosity may increase as solvent evaporates from the dip tank. X2 is the thinner of ISONEL 885. Viscosity may be reduced or maintained by the addition of X2.

## Packaging

**ISONEL 885** is currently sold in 15kg & 180kg containers for ease of use.

## Health & Safety

Refer to Elantas Zhuhai Material Safety Data Sheet (MSDS) for **ISONEL 885**.

## Shelf life

**ISONEL 885** has a shelf life of twelve months when stored at 25°C or below.

It is unaffected by freezing temperatures. Varnish stored for longer than 12 months of exposure to temperatures over 25°C for long periods of time may increase in viscosity. If this occurs, additional thinner (X2 or mineral spirits) may be added to reduce the varnish and make it usable. Varnish so treated may not meet original solids/viscosity specifications. This product can be stored in unlined steel containers for storage up to twelve months. Longer storage in the presence of steel may cause discoloration of the varnish.

PROPERTIES	SPECIFICATION	UNIT
Viscosity @ 25°C Zahn #2 cup	110-150	S
Viscosity (Brookfield) 25°C	200-400	Centipoises
Special gravity	0.93-0.96	g/cm <sup>3</sup>
Solids Content	48-52	%
Flash Point (ASTM D 56-70)	81/29	°F/°C

<b>Performance of the product</b>		
<b><i>CURED FILM PROPERTIES (VARNISH CURED 2 HOURS AT 325° F [163° C])</i></b>		
Mechanical—Helical Coil Bond Strength (ASTM D-2519 on MW-35)	77°F (25°C)	200 N
	302°F (150°C)	18 N
Electrical—Dielectric Strength (ASTM D-115 on copper)	DRY	4300 V/mil
	WET	3000 V/mil

<b><i>U.L. 1446 THERMAL ENDURANCE (°C based on 20,000 hour intercept)</i></b>		
	Twisted Pair	Helical Coil
MW-24	180	200
MW-30	180	200
MW-35	180	200

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