



COTOCABLE

TECHNICAL SHEET

E-524 TS

DIELECTRIC VARNISH

THERMAL CLASS: H (180°C)

OVEN CURED

- ✓ Highly adherent and elastic
 - ✓ Strong binding force
 - ✓ Based in modified epoxy resins
 - ✓ Compatibility with enameled wire and other insulators
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FIELD OF APPLICATION

E 524 TS impregnating varnish is processed on the basis of modified Epoxy resins. Drying is by means of polymerization, allowing for highly compact coils to be obtained, hard, highly adherent and elastic.

They provide high resistance to refrigeration gases and aggressive oils.

E 524 TS varnish is compatible with Class B enameled wire and Class F and H modified esterifications.

It is used in electrical engineering materials where strong binding is needed, Class H and hermetic motor units.

INSTRUCTIONS FOR USE

Preheat the coils to 40–50°C.

Impregnation is performed through immersion until the air bubbles disappear.

Very short drainage in relation to the mass of the piece treated.

Drying 1 hour at 110°C, followed by 4 hours at 160°C.

In the case of impregnation of Hermetic units, 4 hours at 180°C are necessary.

E 524 TS varnish is successfully used for gluing magnetic sheet.

A coat of varnish must be applied to one side (approx. 5 microns), or both sides (approx. 3



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microns each side) and dried at 100/120°C.

This operation will press the sheets under pressure and subsequently assemble them, with the pressed sheets glued under pressure and at a temperature of 180–200°C.

Should a reduction of viscosity be required, our DILUYENTE TS should be used.

PROPERTIES	E-524 TS
Colour	Golden
Density at 20°C (grs/cm ³)	0.98
Viscosity Ford Cup N ^o 4 at 20°C (s)	60 ± 15
Solids (%)	30 ± 2
Drying time on plate at 150°C (min)	60
Storage stability at 20°C (months)	12 months
Dielectric breakdown 0.01 mm (V)	>1500V
Dielectric loss factor at 20°C	0.3·10 ⁻²
Dielectric constant	2.72
Binding power at 20/100/150°C	18/4/1.5 DaN
DSC glass transition temperature	85°C
Thermal index TWIST/HELICAL COIL	195/198°C (UL)

Material included in ROYAL UL system: File E339591

PACKAGING

Sealed lithographed tins of 5 and 25 litres.

In sheet-metal drums of 50, 100 and 200 litres.