

ROYALAC 521, oven drying, thermal class F-155°C



PRODUCT DESCRIPTION

ROYALAC 521 impregnation varnish is processed on the basis of Alkyd Epoxy thermosetting type synthetic resins. Drying is by means of polymerization, allowing for highly compact coils to be obtained, hard, highly adherent and elastic. It is compatible with enameled wire and other insulators. Royalac 521 varnish offers very good resistance to humidity, to tropicalization and to transformer oils..

APPLICATION

Strongly advisable for impregnating transformer, reactance and stator coils.

HOW TO USE

Application methods for Royalac 521 varnish are traditional, by autoclave with pressure vacuum or through immersion. We recommend that the immersion of the coils be at maximum temperatures of 40°C, to avoid the agglutination of the varnish and impregnation defects. Practical drying time for a small transformer will be approximately 3 hours, and for a 5 HP engine, between 5 and 6 hours, approximately. Drying temperature must be 140-150°C. To reduce the viscosity we recommended to use DILUYENTE F-5.

PHYSICAL SPECIFICATIONS

Color	Golden
Density at 20°C (g/cm ³).....	0.965
Ford Cup viscosity n° 4 at 20°C (sec)	60 ± 15
Solids (%).....	43 ± 2
Thermal classification	F (155°C)
Drying time (on plate) at 135°C (min.)	60
Resulting film	Shiny, adherent, flexible and hard
Storage stability at 20°C	12 months

DIELECTRIC PROPERTIES

Dielectric perforation (on a copper plate) per film thickness of 0.01mm

NATURAL STATE	1400 V
After 24h in HCl at 50%	1170 V
After 8 days exposed to air (90% humidity)	1220 V
After 8 days in distilled water	1220 V
After 8 days in transformer oil	1430 V

PACKAGES

The product is available in 5L, 25L packaging. Available at customer's request in 50L, 100L and 200L packaging.