

## ROYALAC WE 203, oven drying, thermal class F-180°C



### PRODUCT DESCRIPTION

ROYALAC WE 203 is an impregnation varnish which is water based made with alkyd thermosetting type synthetic resin. The varnish polymerizes with temperature and it is compatible with enameled wire and other insulators. ROYALAC WE 203 varnish offers very good resistance to humidity, good chemical resistance and high bond strength. The product is UL E-104619 certified.

### APPLICATION

Strongly advisable for impregnating transformer, reactance and stator coils which need thermal class H and for hermetic motor group.

### HOW TO USE

Pre-heat the samples before the impregnation is recommended at 60°C to improve the penetration of the varnish. The impregnation has to be done since the bubbles disappear completely. Application methods for ROYALAC WE 203 varnish are traditional by autoclave with pressure vacuum or through immersion. We recommend that the immersion of the coils has to be done 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 1-3 hours 95°C + 3 hours 150°C or 1 hour 180°C. It is recommended to use a metal or plastic impregnation tank to avoid the oxidation.

### PHYSICAL SPECIFICATIONS

	25%	50%
Colour .....	yellow	yellow
Density at 20 ° C (g / cm3) .....	1.01	1.03
Viscosity at 20 ° C (sec) .....	Ford Cup N ° 2 - 15 ± 5	60 ± 10 - Ford N Cup ° 4
Solids (%) .....	25 ± 2	50 ± 2
pH .....	8.5	8.5
Flash point .....	56	56
Thermal class .....	H(180°C).	

### DIELECTRIC PROPERTIES

Dielectric breakdown on copper plate by film thickness of 0.01mm ....	1100V
Dielectric constant a 20°C .....	2,01
Loss Factor at 20°C .....	0.0071
Bonding power 20/100/155°C (DaN).....	20/9/2.5

### PACKAGES

The product is available in 25L packaging. Available at customer's request in larger packaging.