



## Electrical insulation resin KO-916K

Silicon organic resin, electric insulating

### Characteristics

A solution of a polyester-modified polymethylphenylsiloxane resin in xylene.

### Features

- Has a good impregnation ability, which is due to the minimum viscosity, low surface tension.
- Good adhesion.
- Well cement separate windings and layers of winding and insulation.
- Forms a smooth, dense, glossy, hard, durable film.
- Has good thermal conductivity and mechanical strength.
- It does not adversely affect copper and enamel insulation of wires.
- Has high water resistance, water resistance and hydrophobicity.
- Thermal-elastic properties are retained by prolonged heating of insulation during operation of electrical machines.
- High dielectric characteristics vary slightly under the influence of high temperature and moisture.

### Applications

- For impregnation of windings of electrical apparatuses, dry transformers with insulation of heat resistance class "H", for impregnating units of electrical machines and apparatuses of tropical and marine performance.
- For manufacturing coils of electromagnetic separators.
- For electrical steel lacquering.
- When repairing lifting magnets.
- When repairing and modernizing electric machines.

### Methods of application

The resin (varnish) is applied to the surface by dipping or soaking. More information on the application can be provided upon your request.

### Storage

KO-916K resin is stored in a hermetically sealed container at a temperature of -30°C up to +35°C.

Shelf life in the manufacturer's container is 6 months.

Store in a cool, dry, well-ventilated place, away from heaters. Protect from moisture and direct sunlight. Storage over the date specified on the label does not necessarily mean the product is unusable. In case, if store more, please, check the properties of product before use.

### Packing

Steel barrels up to 200 liters.

### Safety instructions

The product is flammable; please follow fire safety instructions during work. Please see detailed instructions in the relevant product safety data sheet, which can be provided upon request.

## Technical characteristics

NAME OF PARAMETER AND UNIT OF MEASURE	STANDARD
Appearance	Homogeneous transparent solution. Light opalescence is permissible.
Optical density, max.	1,0
Viscosity by Viscosity meter VZ-4, s	45 – 65
Mass fraction of nonvolatile substances, %	64 – 68
The drying time of the lacquer film at (+200±5)°C to the degree of 3, minutes, max.	15
The thermoelasticity of the lacquer film at (+200±5)°C, h, min	50
Cementing ability of lacquer coating at +20°C, H, min.	294

NAME OF PARAMETER AND UNIT OF MEASURE	STANDARD
Specific volumetric electrical resistance of lacquer coating, Ohm*m: M (15-35)°C 45-75%, min. M (180±2)°C, <20 %, min. 24 h (20±1)°C, min.	  1*10 <sup>13</sup> 1*10 <sup>10</sup> 1*10 <sup>12</sup>
Electric strength of varnish coating, MV/m: M (15-35)°C 45-75%, min. M (180±2)°C, <20 %, min. 24 h (20±1)°C, min.	  75 50 50

To obtain more information please contact your nearest representative office of Silkor Ltd.

#### **LIMITED WARRANTY INFORMATION**

##### **PLEASE READ CAREFULLY**

The information contained herein is accurate, but it does not relieve the customer from the control of each batch of products supplied. Since the conditions and methods of use of our products are beyond our control, the recommendations contained in this document should be updated by the client providing preliminary tests. Recommendations for use should not be construed as a guarantee of product suitability for a particular purpose.

Silkor Ltd only guarantees that the product meets its specifications in effect at the time of delivery.