

S11 SURVEY
REPORT

Group 11

Impregnating varnishes

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This survey report gives a comprehensive overview of product group 11. For further information please refer to the technical reports (TR), in which the mentioned products are described in detail.

For more extensive advice, our application technology department (ATD) is at your disposal at any time.

The first column of this survey corresponds to the order in which our technical reports (TR) are filed in the report manual and/or supplements and new technical reports are to be added. Thus this survey also serves as a table of contents of product group 11.

The products mentioned in this survey do not contain substances listed in the RoHS directive 2002/95/EC, the EU End-of-Life Vehicle directive 2000/53/EC ("lead-free regulation") and the WEEE directive 2002/96/EC. Detailed information on these directives that restrict or prohibit the use of certain hazardous substances can be accessed in the "Service" section on our website www.peters.de – "Directives/restrictions of substances".

1. Impregnating varnishes based on modified synthetic resins

1.1 General characteristics

- thermo curing 1-pack impregnating varnishes for all common impregnating processes
- for use in the production of coils and windings and for repair work, in particular in the case of machines with high switching frequencies, fast circumferencial speeds and varying rotational directions
- suitable for windings made of textile, paper or glass fabric covered wires and enamelled wires of all types
- very good permeation/impregnation of coils and windings
- relatively short drying times and optimum through-drying, even in deeper winding layers
- excellent resistance to water, condensation, moisture, tropical climates and numerous chemicals, grease, oils and transformer oil
- high baking resistance and good adhesion
- high elasticity, even when bent
- good dielectric properties
- thermal class B = 130 °C [266 °F] based on DIN IEC 60085
- very good ageing resistance, virtually no yellowing.

1.2 Product-specific characteristics

Product (series)	Special properties
Impregnating varnish TL 11.300 RI-OX/90 , colourless	<ul style="list-style-type: none"> • remains clear transparent after curing so that the impregnated papers and their associated notations used in transformer construction are easily recognisable • free of xylene (Index OX = no xylene) • contains a rust inhibitor (Index RI) so that corrosion of metal armature, stator and transformer plate blocks under the applied impregnating varnish is virtually impossible • Index /90 = viscosity 90 s per DIN 53 211

Any questions?

We would be pleased to offer you advice and assistance in solving your problems. Free samples and technical literature are available upon request.

The above information as well as advice given by our Application Technology Department whether in verbal or written form or during product evaluations is provided to the best of our knowledge, but must be regarded as non-binding recommendations, also with respect to possible third-party proprietary rights.

The products are exclusively intended for the applications indicated in the corresponding technical data sheets.

The advisory service does not exempt you from performing your own assessments, in particular of our material safety data sheets and technical information sheets, and of our products as regards their suitability for the applications intended.

The application, use and processing of our products and of the products manufactured by you based on the advice given by our Application Technology Department are beyond our control and thus entirely your responsibility. The sale of our products is effected in accordance with our current terms of sale and delivery.

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