

WASOL 65



VULAK WATER SOLUBLE IMPREGNANTS

Characteristic

WASOL 65 is a water-soluble phenolic resin with very good mechanical properties and very good stability in the tank. It is an emulsion, low viscous liquid in the color of the ivory (brownish, depending on the light). WASOL 65 can also be prepared in three color versions (yellow, blue or red), the dye does not affect the processing properties and stability of impregnating resin.

Impregnating varnish is characterized by the following properties:

- VOC content approaching zero = low ecological costs
- Absolutely safe and comfortable operation without risk of explosion (non-combustible)
- Without unpleasant odors and negative impacts on human health
- Shorter curing time (more economical)
- During curing, mainly water evaporates that does not belong to air pollutants escapes
- Excellent penetration ability even without vacuum
- Very good adhesion and flexibility
- Form a continuous homogeneous film on the transformer and motor frame
- Perfect mechanical strength
- Good electrical properties

Field of application

WASOL 65 is intended for insulation systems of temperature class F (155 °C) and H (180 °C). It is used for impregnation of low and medium voltage transformers as well as several types of motors.

The most common applications:

- Motors of grass cutters
- Home tool motors
- Welding transformers
- Low voltage Transformers

Processing

WASOL 65 is suitable for impregnation by dipping or impregnation under vacuum. Exact instructions for processing will be provided depending on the customer's processing method.

For better impregnation of windings, the impregnant can be heated to 40 °C, thereby reducing the viscosity to half, however the stability of the impregnant remains unchanged. A stainless steel or galvanized container is recommended for this product.

Impregnation can be diluted with demineralized water by the user. Main quality parameter, the PH factor of impregnating varnish is possible to easily measured by pH papers (i.e. litmus paper).

When handling the impregnating resin, follow the safety instructions in the Safety Data Sheet.

CAUTION: Impregnating varnish must not freeze!

To clean the equipment and work tools from undamaged impregnant it is recommended to use VUKI thinner T5.

Hardening

Hardening conditions:

- 2 hours at 150 °C, or
- 3,5 hours at 135 °C



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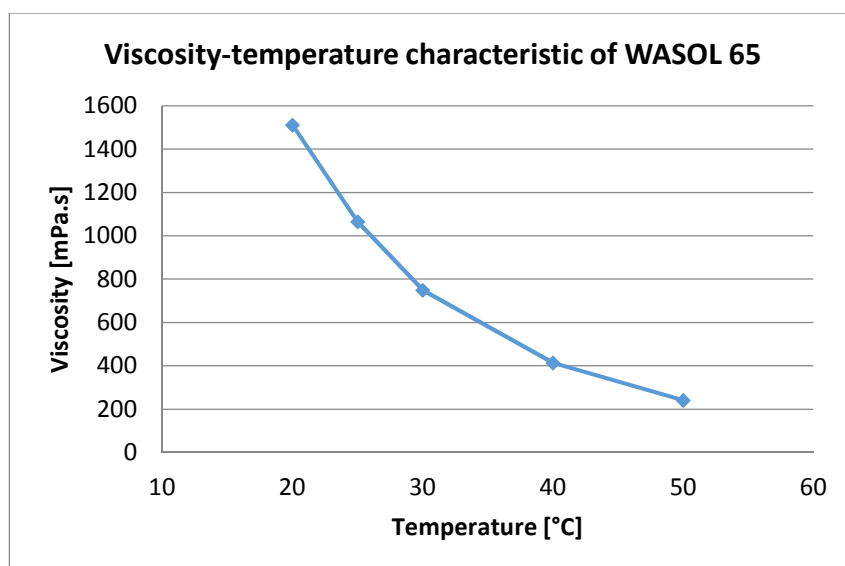
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Processing properties

Parameter	Standard	Condition	Value	Unit	Description
Density	STN EN ISO 2811-1	25 °C	1070	kg/m ³	
Flow time	DIN 532 11	23 °C	200	s	Cup ISO 4
Viscosity	STN 67 3014	25 °C	1000 - 1200	mPa.s	
Solid content	STN EN ISO 3251		60 - 65	%	1,5 g / 1 hour / 130°C
Stability		1 - 25 °C	min. 12	month	
pH			7 - 8	°C	

Parameters after hardening

Parameter	Standard	Condition	Value	Unit	Description
Electrical strength	STN EN 60243-1	23 °C	208	kV/mm	cylindrical electrodes ø 6 mm
		180 °C	187		
		96 h, 92% rel. hum. at 23°C	200		
Twisted coil strength	STN EN 61 033 art. 2.1 method A	23 °C	191	N	
		180 °C	52		



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Packing, storing and manipulation

WASOL 65 is filled into non-returnable, clean, 50 l plastic containers, 200 l plastic drums or in plastic packaging according to the agreement between the manufacturer and the customer.

Impregnation should be stored in tightly closed containers in a dry, ventilated place at temperatures from 1 ° C to + 25 ° C.

CAUTION: It is necessary to protect it from frost.

The shelf life of the impregnant is 12 months from the date of manufacture.

WASOL 65 is transported in covered vehicles. Packages must be kept upright and secured against shifting. Impregnation must not be exposed to freeze!

CAUTION: Exposure to freeze may result in deterioration of the impregnant!

Impregnating resin is not classified as a dangerous product.

Safety

Disposable packaging after perfect emptying and wiping can be removed as other waste. If emptying is not possible, the packaging is disposed of as hazardous waste. Please follow local regulations.

NOTE

The information in this document is consistent with our best knowledge of the date of publication. This information can be a subject of revision without prior notice if new knowledge and experience are available. The data provided falls within the normal range of product properties and relates only to the specified material. These data may not apply to materials used in combination with other materials or ingredients or other processes, unless expressly stated otherwise. The data provided should not be used to set limits or used separately as a basis for the sample: they are not intended to compensate for any testing that may be necessary to make a decision as to whether the specific material is suitable for your particular purpose. Because VUKI cannot predict all variants of end-use product conditions, VUKI does not provide guarantees and has no responsibility with respect to any use of this information. Nothing in this publication is considered to be a use or recommendation to violate any patent rights.

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