

LAK 380



VULAK IMPREGNANTS

Characteristic

LAK 380 is an H-class alkyd-phenolic impregnating varnish with high mechanical strength. It creates a hard, durable insulating film with excellent mechanical and electrical properties suitable for class H (180 °C). The impregnating lacquer penetrates excellently into winding and has a great drying ability. It is also very stable in large containers with little variation. After curing has exceptionally good resistance to moisture and oil. It also perfectly cures within the winding. It is flexible, compatible with all common insulation systems

Field of application

Lak 380 is suitable for insulation systems of temperature class H (180 °C). It is used for general use to impregnate transformers, chokes and various types of electric motors.

Processing

LAK 380 is designed for dipping, potting or VPI technology. Exact instructions for processing will be provided depending on the processing technology used.

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

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

Curing

- 4 hours at 130 °C
- 2 hours at 160 °C

Processing properties

Parameter	Standard	Condition	Value	Unit	Description
Flow time	STN EN 60464-2	20 °C Hot dipping Cold dipping	115 – 145 65 – 120 65 - 150	s	
Non-volatile content	STN EN ISO 3251		45 – 50	%	
Specific gravity			0,92 – 0,94	kg/m ³	
VOC			50	%	
Flash point	STN EN ISO 2592		40	°C	
Shelf life		21 °C	12	month	
Thinner			T4		Name of VUKI product
Drying time		130 °C 160 °C	4 2	hour hour	



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Parameters after hardening

Parameter	Standard	Condition	Value	Unit	Description
Mechanical strength		23 °C	201	N	Helical coils
		155 °C	17,7		
Dielectric strength	STN EN 60243-1	23 °C	166	kV/mm	6mm cylindrical electrodes
		24 h immersion in water	122		
Thermal resistance	UL 1446	Twisted pair	180	°C	MW-35
		Helical coils	200		

Packing, storing and manipulation

LAK 380 is supplied in non-returnable, clean, metal drums with weight 4,5 kg, 9kg, 25kg or 200 kg metal drums. Alternatively, other packaging can be used according agreement.

Impregnating varnish is to be stored in tightly closed containers in a dry, ventilated place at +1 ° C to + 20 ° C. It is necessary to protect it from open flame, heat and direct sun rays and to keep it separate from the oxidizing agents. When the storage conditions are met, the quality of the impregnating varnish is guaranteed 12 months from the date of manufacture.

Lak 380 have to be transported in covered means of freight. Packages must be kept upright and secured against shifting. The product is not classified as dangerous under transport regulations.

CAUTION: Extreme heat, contamination or exposure to direct sunlight may result in the polymerization and deterioration of the impregnant!

SAFETY

It is necessary to prevent the product from entering the drainage system.

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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