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## Damisol® 3630 HTP 02/300 1-component-resin

Damisol® 3630 HTP 02/100 is an opaque, solvent-free 1-component-resin based on unsaturated polyesterimides.

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### Attributes

The thixotrop Damisol® 3630 HTP 02/100 has the following properties:

- no VOC (Volatile Organic Compound)
- very low smell
- high reactivity
- high stability in tank
- low viscosity

Cured Damisol® 3630 HTP 02/100 has the following properties:

- outstanding thermal resistance up to (and more than) Class H.

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### Application

Damisol® 3630 HTP 02/100 is suitable for 3.3. kV machines using right porous mica polyester film based tape as main wall insulation, like Samicapor 315.45. Dipping, VPI, trickling and Roll-Dipping of all kinds of windings, from any low and medium voltage machines and transformers.

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### Standards

- UL-approved Class 180 (H)
- UL-File-no. E 98511
- RoHS-compliant acc. 2011/65/EU
- VOC-free, 1999/13/EC

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### Delivery forms

Damisol® 3630 HTP 02/100 is available in:

- 20 kg cans
- 200 kg drums
- 1000 kg container

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### Storage

Damisol® 3630 HTP 02/100 can be stored 12 months at max. 25 °C in sealed containers and must be protected from light and sun. Higher temperature can be reached during short period of time. If storing the resin in a supply tank, it is recommended keeping the resin under atmospheric pressure.

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## Hardening

Recommended curing time:

- Trickling: at 150 °C - 30-60 min.
- Dipping and VPI: at 150 °C - 2 h

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## Protection

Please refer to the material safety data sheet for complete information.

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## Processing

The Damisol® 3630 HTP 02/100 can be precessed in any kind of dipping, VPI; trickling or Dip-Rolling machines, in immersion and vacuum or vacuum pressure installations. If storing the resin in a supply tank, we recommend keeping the resin under atmospheric pressure. It is advantageous not to fill the supply tank completely. The recommended filling level is 70 %.

Using hot impregnating process, the resin temperature should be maintained lower than 30 °C and refreshed with new resin.

Mechanical	Unit of measure	Conditions	Value	Test method
Bond strength	daN	23 °C	25	IEC 61033
Bond strength	daN	155 °C	8	IEC 61033
Bond strength	daN	180 °C	6	IEC 61033

Thermal	Unit of measure	Value
Thermal class	°C	180

Chemical	Unit of measure	Conditions	Value	Test method
Resistance	%	2 % sodium hydroxide	<0.1	ISO 175
Resistance	%	10 % hydrogen chloride	<0.7	
Resistance		ISO 175		

Liquid phase	Unit of measure	Conditions	Value	Test method
Flashpoint	°C		>100	ISO 3679

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

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Liquid phase	Unit of measure	Conditions	Value	Test method
Gel time at 120 °C	min		3-6	
Density	g/cm <sup>3</sup>	at 23 °C	1.10	
Viscosity	mPas	23 °C / 2.5 rpm	250-350	Brookfield/ISO 2555

Electrical	Unit of measure	Value	Test method
Dielectric strength at 23 °C and 50 % r.h.	kV/mm	≥150	DIN 46448

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