



Damisol® 3630 HTP / 600

- ► No VOC (Volatile organic compound)
- ► Low viscosity and High reactivity
- ► Suitable for a wide range of motors, generators and transformers.
- ► Can be processed on usual dipping, trickling, Roll-Dip and VPI equipment
- ▶ Outstanding thermal resistance up to (and more) than Class H UL under progress- File E 98 511

General description

Base: One component unsaturated polyesterimide resin with extremly low smell and without any VOC (Volatile organic compound) refering to the European legislation 1999/13/CE.

High reactivity and low viscosity resin. Suitable for any kind of process (trickling, roll dipping and dipping).

Permanent temperature properties for electrical insulation systems up to and including Class H. UL Recognition File No. E 98 511 : Under test

Dipping, VPI, Trickling and Dip-Rolling of all kinds of windings, from any low voltage rotating machines and transformers.

This reference exists in different viscosity in order to suit exactly the customer process.

Due to its high thermal resistance, it could be used on any kind of electrical equipment exposed to high temperature conditions (tunnel fans,...)

Processing

The Damisol 3630 HTP can be processed on any kind of dipping, VPI, trickling or Dip-Rolling machines, in immersion and vacuum or vacuum pressure installations.

Usual Curing process

- Trickling: 30 to 60 mn at 150°C (measured on copper),
 Dipping: 2 h at 150°C (usual oven temperature)

Higher temperature and longer curing time will optimize the chemical resistance as well as the mechanical properties.

The resin has to be protected from contamination. A regular viscosity check is therefore necessary.

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

Packaging

20 kg cans, 200 kg drums, 1000 kg Containers.

Storage Conditions

Minimum 12 months at 23°C in sealed containers protected from light and sun.

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%.

Health and safety

Refer to the Material Safety Data Sheet for complete information

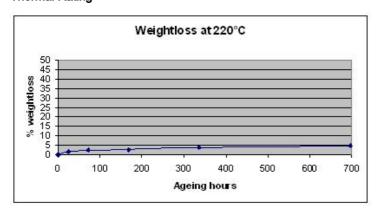
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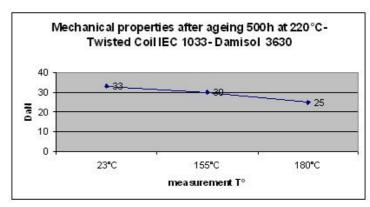
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		Value	Test norm
Physical properties			
Appearance		Transparent	
Density at 23°C	g/cm³	1.10	
Smell		Very Low	
Flash point	°C	≥110	
Gel time at 120° C	mn	2- 4	
Viscosity (Brookfield) at 23°C	mPa.s	600 ± 200	
Mechanical properties			•
Bonding strength at 23°C	daN	25 ± 10%	IEC 1033
Bonding strength at 130°C	daN	10 ± 10%	IEC 1033
Bonding strength at 155°C	daN	8 ± 10%	IEC 1033
Bonding strength at 180°C	daN	6 ± 10%	IEC 1033
Electrical properties			
Dielectric strength - initial condition 50 % r.h at 23°C	kV/mm	≥150	DIN 46448
Chemical properties			•
Water absorption after 24 h in water at 23°C	%	<0,2	ISO 62 (method 1)
Water absorption after 7 days in water at 23°C	%	<0,5	ISO 62 (method 1)
Resistance to liquid chemicals: HCl 10%	%	<0,7	ISO 175
Resistance to liquid chemicals : 2 % caustic soda solution	%	≤0,1	ISO 175

Thermal Rating





The product properties set forth in this data sheet are based on the results of testing of typical material produced by the affiliated companies of Von Roll Holding Ltd. (underneath referred as Von Roll). Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Von Roll does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Von Roll expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Von Roll makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Von Roll shall in no event be liable for incidental, exemplary, punitive or consequential damages.

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