Synthite AC-43 Air drying varnish Page 1

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Synthite AC-43 Air drying varnish

Synthite AC-43 is a clear, air drying electrical insulation varnish on basis of modified polyester, suitable for class H.

Attributes

Synthite AC-43 has the following excellent properties:

- UL-approved
- very fast air drying
- excellent chemical resistance
- solderable
- excellent adhesion
- good penetration
- transformer oil resistance ASTM D 155-55
- corrosion and humidity resistance

Application

Typical applications for Synthite AC-43 are:

- stators
- printed circuit boards
- · form wound coils
- resistors
- transformers
- capacitors

Standards

Class H (180 °C) UL-file-no. OBOR2.E317427 and OBJS2.EB17429.

Magnet wire Twisted pairs Helical coils

MW 24-C 155 °C 155 °C MW 28-C 130 °C 130 °C MW 35-C 180 °C 180 °C

Delivery forms

Colour: clear

4.5 kg, 22.5 kg and spray bottles on request.

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. Updated 04/24





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Storage

Synthite AC-43 can be stored at room temperature and in closed containers for up to 24 months (max. 30 °C). The varnish has to be stored in cold, dry places, protected against direct sunlight.

Hardening

Air drying time (on copper plate):

10 min. - set to touch

Protection

Use in well ventilated area, aboid contact with skin and eyes and wear protective clothes. Please observe the safety data sheet.

Processing

Synthite AC-43 may be applied by dipping, brushing or spraying as supplied.

For fast conveyor application, the following cycle is recommended:

- 1. Preheat units for 10 min. at 110 °C
- 2. Dip into the varnish for 30 sec.
- 3. Drain 10-20 min.
- 4. Bake 60-90 min. at 110 °C

For this type of cycle Synthite AC43 should be diluted 10-15 % with Dolph's \$ T-200 thinner.





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Mechanical	Unit of measure	Conditions	Values	Test method
Coating thickness	μm		75-100	ASTM D-115-55

Electrical	Unit of measure	Conditions	Value	Test method
Dielectric strength	kV/mm	dry / 25 °C	80	ASTM D-115
Dielectric strength	kV/mm	after 24h water storage / 25 °C	48	ASTM D-115
Creep resistance		СТІ	600	IEC 60112

Chemical	Conditions	Blistering	Rusting	Cracking	Test method
Resistance	Water	no	no	no	ISO 4628/2-3-4
Resistance	10 % Sulfuric acid	no	no	no	ISO 4628/2-3-4
Resistance	1 % Sodium hydroxide	no	no	no	ISO 4628/2-3-4
Resistance	Salt water	no	no	no	ISO 4628/2-3-4





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Liquid phase	Unit of measure	Conditions
Viscosity	S	25 °C
Viscosity	S	25 °C
Specific density	g/cm³	25 °C

Liquid phase	Unit of measure	Values	Test method
Viscosity	S	50-70	ISO Cup 4
Viscosity	S	18-24	Ford Cup 4
Specific density	g/cm³	0.87-0.93	





