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## Synthite EB-43/387-D Polyester enamel varnish

Synthite EB-43/387-D is a black, very quick drying Polyester enamel varnish.

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### Attributes

Synthite EB- 43/387-D has the following excellent properties:

- very fast drying
- UL-approved
- excellent chemical resistance
- oil and moisture resistant
- hard, smooth, abrasion resistant film
- good adhesion
- good electrical properties
- transformer oil resistance ASTM D 155-55
- corrosion and humidity resistance

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### Application

Typical applications for Synthite EB-43/387-D are:

- stators
- printed circuit boards
- form wound coils
- resistors
- transformers
- bus bars

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### Standards

class H (180°C) UL 1446

UL-file-no. OBOR2.E317427 and OBJS2.E317429

magnet wire	Twisted Pairs	Helical Coil
MW 24-C	155 °C	155 °C
MW 28-C	130 °C	130 °C
MW 35-C	180 °C	180 °C

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Updated 04/24



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### Delivery forms

5 kg, 25 kg and spray cans on request.

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### Storage

Store in cool, dry place (max. 30 °C) away from direct sunlight. Protect from moisture and humidity. Shelf-life is 24 months when stored in closed original containers at max. 30 °C.

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### Hardening

Air-drying time (on copper plate):

60 min. - set to touch

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### Protection

Use in well ventilated areas, avoid contact with skin and eyes and wear protective clothes. For more details see the safety data sheet.

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### Processing

For spraying application, Synthite EB-43/387-D must be thinned with 15 % of Dolph's® T-200 thinner.

It is supplied with a viscosity suitable for application by brush.

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 / 0.025 mm film thickness	80	ASTM D-115
Dielectric strength	kV/mm	after 24 h water disposal / 0.025 mm film thickness	48	ASTM D-115
Creep resistance			600 M	DIN IEC 60112

Chemical	Conditions ISO 2812-2 / 168 h	Blistering	Rusting	Cracking	Test method
Resistance	Water	no	no	no	ISO 4628/2-3-4
Resistance	10 % sulphuric 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/cm <sup>3</sup>	25 °C

Liquid phase	Unit of measure	Values	Test method
Viscosity	s	60-80	Ford Cup 4
Viscosity	s	75-100	ISO Cup 5
Specific density	g/cm <sup>3</sup>	1.07-1.13	

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