
Synthite EB-43/387-D Polyester enamel varnish

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

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

Application

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

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

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



Delivery forms

5 kg, 25 kg and spray cans on request.

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.

Hardening

Air-drying time (on copper plate):

60 min. - set to touch

Protection

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

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 |
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| Specific density | g/cm ³ | 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 ³ | 1.07-1.13 | |

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