



-TECHNICAL DATA SHEET -

**SYNTHITE ER-41
RED INSULATOR**

DESCRIPTION

SYNTHITE ER-41 Red Insulator is a protective high temperature insulating enamel that dries very quickly, forming a tough and flexible film giving excellent heat and chemical resistance. It has the following outstanding properties:

- UL approved file E317427
- Very fast air-drying.
- Excellent chemical resistance.
- Oil and moisture resistant.
- Hard, smooth, abrasion resistant film.
- Excellent adhesion


TYPICAL APPLICATIONS

Stators	Rotors	Transformers
Printed Circuit Boards	Resistors	Capacitors

CHARACTERISTICS

Physical properties	
Color	red
Specific gravity at 25°C	950±50 g/l
Flow time Ford Cup n. 4 at 25°C	90-120"
Flow time Demmler cup n. 1 at 30°C	70-100"
Build up, D.F.T. (ASTM D-115-55)	0,075 / 0,100 mm.
Thinner	Dolph's T-200
Air Drying time (on a copper plate)	Set to touch: 60"
Corrosive effects on copper	None

Electrical Properties	
Dielectric Strength (dry)	2000 Volts/ 0,025 mm.
Dielectric Strength (after 24 h. dipping into water)	1200 Volts/0,0 25 mm.

Thermal class, according to UL 1446 –  File E317427 -	
Magnet wire	Twisted Pairs
MW 28-C	130°C
MW 35-C	180°C



Chemical resistance on 40 micron dry film. Drying time 24h at RT+24h at 60°C			
ISO 2812 Method 2 168h exposure			
Evaluation according to ISO 4628/2-3-4	Blistering	Rusting	Cracking
Water	0	0	0
Acid (10% Sulfuric Acid)	0	0	0
Alkali (1% Sodium Hydroxide)	0	0	0
Salt Water	0	0	0
Resistance to transformer oil (IEC 60296) ASTM D 115-55			Test Passed
Corrosion resistance (salt spray) ISO 9277			200 h
Humidity resistance ISO 6270			72 h

APPLICATION GUIDELINE

SYNTHITE ER-41 dries very quickly to a uniform, glossy finish that gives a superior abrasion resistance and an excellent adhesion to most surfaces.

It is suitable as a protective coating for stator coils, transformer coils, armature coils, bus bars, field coils, control coils, commutator ends, collector rings, oil reservoir interiors, switch bases, porcelain, molded bakelite, solenoid coils, motor frames and so on.

SYNTHITE ER-41 is supplied with a viscosity suitable for application by brush. For spraying application, it must be thinned with 15% about of Dolph's T-200 thinner.

SYNTHITE ER 41 is also available in spray cans.

STORAGE AND STABILITY

Store in a 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 container at max 30°C.

HANDLING PRECAUTION

SYNTHITE ER-41 is for industrial/professional use only. Please refer to MSDS for any further information

Warning: All the information and application instructions concerning this product are based on technical specifications that we consider reliable, and are provided by way of example, according to our application experience. They do not establish any guarantee but only represent a starting point subject to alterations, according to the application and the kind of material to be treated. Before the product's use the utilizer must determine the suitability for the intended use undertaking all risks and responsibility for whatever may happen in connection with the application. The producer and/or seller will not be considered responsible for any accident, loss or damage (immediate or consequent) originating from the use and/or the inability to use the concerned product. Albesiano Sisa Vernici srl reserves the right to change or modify at any time and without any notice the technical specifications of the product described in this data sheet.

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