

Data sheet: **Synthite AC-32**

Designation **Synthite ER-32 Clear air drying varnish**

DESCRIPTION

SYNTHITE AC-32 is a modified alkyd varnish, drying at room temperature, with low viscosity to ensure good impregnation. Compatible with most enamelled yarns:

Amide-Imide	Polyurethane	Textile
Polyamide	Epoxy	Polyester Amide-Imide
Polyurethane-Polyamide	Polyvinyl Formal-Polyamide	Polyester
Polyvinyl Formal	Polyimide	Plain enamel

PROPERTIES

SYNTHITE AC-32 is a modified alkyd varnish having the following outstanding properties:

- Fast solvent release.
- Fast air-drying.
- Good penetration.
- Good bond strength.
- Good acids and alkalis resistance.

CHARACTERISTICS

Physical properties	
Color	clear, yellow-orange
Specific gravity @ 25oC	900±50 g/L
Viscosity, ISO Cup 4 @ 25oC	14-18 seconds
Drying-time on copper	60'
Corrosive effect on copper	None
Flash Point	19°C

Electrical properties	
Electric strength, (dry / 0.025 mm film Thickness) ASTM D-115	600 KV/mm

Chemical resistance (ISO 2812 method 2, 168-hour exposure and on dried film thicknesses of 40 µm. Drying: 24h @ RT + 24h @ 60°C),				
	Blistering	Rusting	Cracking	Test method
Salt water	no	no	no	ISO 4628/2-3-4
Water	no	no	no	ISO 4628/2-3-4
10 % sulfuric acid	no	no	no	ISO 4628/2-3-4
1 % NaOH dilution	no	no	no	ISO 4628/2-3-4
IEC 60296 transformer oil IEC 60296, ASTM D 115-55			Test OK	ASTM D 115-55

APPLICATION

AC-32 is suitable for the impregnation of stators, coils and transformers.

APPLICATION GUIDELINES

SYNTHITE AC-32 may be applied by dipping or spraying. When necessary, it can be diluted further. It air-dries in 2-8 hours, according to the unit size. To accelerate the drying time and improve the chemical resistances it can be baked in the oven for 3-4 hours at 80°C or 1-2 hours at 120°C.

SYNTHITE AC-32 has a low viscosity that grants a good penetration in any size of winding. As all varnishes dry at room temperature by reaction with oxygen, we recommend covering the dip tank.

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. Being an air-drying varnish (that cures through oxygen absorption), it is recommended to keep the dipping tank covered.

HARDENING PRECAUTION

SYNTHITE AC-32 must be intended for industrial/professional use only. Please refer to safety data sheet for any further detail.

Liability

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