

TECHNICAL DATA SHEET

JOHN C. DOLPH COMPANY

P.O. Box 267 320 New Road Monmouth Junction, NJ 08852 Ph:(732) 329-2333 Fax:(732) 329-1143 info@dolphs.com www.dolphs.com

HI_THERM[®] BC-346-A

CLEAR BAKING VARNISH

PRODUCT DESCRIPTION

BC-346-A is a specially formulated, high temperature varnish which can be used in a wide range of dip and bake applications.

FEATURES & BENEFITS

- Excellent flexibility
- Excellent adhesion
- High film build
- Superior wetting properties

TYPICAL APPLICATIONS

- Transformers
- Stators
- Form Wound Coils

- Military approval Qualified under MIL-I-24092, Grade CB, Class 155
- UL recognized varnish in systems up to 220°
- Random Wound Coils
- Armatures
- Relays

TYPICAL PROPERTIES

Physical

Color/Appearance	Clear/Amber
Density @ 77°F (25°C), Lbs/gal	7.5 - 7.8
Viscosity @ 77°F (25°C), Brookfield Viscometer, cps	150 - 320
Flash Point, °F	54
Film Build, mils/side, ASTM D-115	2 - 3
Thinner (solvent)	T-200X
Corrosive Effect on Copper	None

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Mechanical

Bond Strength, Helical Coil Method, lbs to break	@25°C	28
	@150ºC	2.5

Electrical

Dielectric Strength ASTM D115, volts/mi	Dry wet	4,000 2,900
	wet	2,900

Chemical Resistance

Water	Excellent
Acid (10% Sulfuric Acid)	Excellent
Alkali (1% Sodium Hydroxide)	Excellent
Salt Water	Excellent
Oil, ASTM D-115	Passed

Thermal Class (UL-1446)

Twisted Pair	MW16	240
	MW24	155
	MW28	155
	MW30	180
	MW35	200
	MW76	180

APPLICATION GUIDELINES

Following is a suggested dip and bake cycle.

- 1. Preheat parts to 250-325°F to remove moisture. Note: If thermoset tapes are used, preset tapes according to tape manufacturer's recommendations.
- 2. Cool to I30°-140°F
- 3. Dip until bubbling stops (15-30 minutes).
- 4. Drain between 5-20 minutes
- 5. Bake in a preheated oven at recommended time and temperature

STORAGE AND SHELF LIFE

Shelf life is one year from date of shipment from our plant, when stored in closed containers at 70°F or below.

- 1. Store in cool, dry place at 70°F/21°C or below.
- 2. Protect from direct sunlight and sources of heat
- 3. Keep away from heat, sparks and open flame.

SAFETY AND ENVIRONMENT

Avoid contact with skin and eyes. See Material Safety Data Sheet.

Suggested Bake Cycles*

- 1-2 hours @ 325°F 2-3 hours @ 300°F 2-4 hours @ 275°F
- * Times are taken after unit reaches baking temperature

AUTHORIZED DISTRIBUTOR

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