



PRELIMINARY DATA SHEET

JOHN C. DOLPH COMPANY

320 New Road
Monmouth Junction, NJ
08852

Ph: (732) 329-2333
Fax: (732) 329-1143
info@dolphs.com
www.dolphs.com

AQUA-THERM[®] BC-379

Clear water borne epoxy dispersion varnish

DESCRIPTION

AQUA-THERM BC-379[®] a one part water borne epoxy dispersion insulating varnish, designed for impregnating electrical equipment. AQUA-THERM BC-379[®] contains no petroleum solvents.

FEATURES AND BENEFITS

<ul style="list-style-type: none">• HAPS free• Low VOC• No odor• No flash point• High bond strength• Excellent wetting properties	<ul style="list-style-type: none">• Even film build• Excellent coil penetration• Excellent adhesion and flexibility• Excellent base coat for epoxy encapsulation• Good tank stability• Inhibited against ferrous corrosion
--	---

TYPICAL APPLICATIONS

<ul style="list-style-type: none">• Rotors• Stators• Armatures• Random wound coils	<ul style="list-style-type: none">• Coils• Laminations• Transformers
---	--

TYPICAL PROPERTIES

Physical

Color/Appearance	WHITE
Weight per Gallon @ 77°F (25°C), ASTM D 1475, lbs/g al	8.6 – 8.9
Viscosity, Brookfield @ 77°F (25°C), ASTM D 2196, cps	10 - 50
Thinner	Water
Film Build, ASTM D 115, mils/side	0.20 – 0.40
VOC Content, ASTM, D 6053, lbs/gal	0.20

All statements, technical information and recommendations related to Sellers' products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before using the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liabilities whatsoever in connection with such use. The statements contained herein are made in lieu of all warranties, expressed or implied. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use or inability to use its products. The sole liability of John C. Dolph Co., Inc. for any claims arising out of the manufacture, use or sale of its products shall be for the buyer's purchase price.

Mechanical

Helical Coil Bond Strength, ASTM D 2519, Double dip, 4 hours @ 325 F	@77°F (25°C) @225°F (107°C)	40- 50 22-28
--	--------------------------------	-----------------

Electrical

Dielectric Strength, ASTM D-1115, volts/mi, Dry)	4,000
--	-------

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 130°-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

Suggested Bake Cycles*

1-2 hours @ 350 F

2-4 hours @ 325°F

* Times are taken after unit reaches baking temperature

STORAGE AND SHELF LIFE

Shelf life is 6 month from date of shipment from our plant, when stored in closed containers at 70°F/21°C 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

AUTHORIZED DISTRIBUTOR