



December 1, 1980
 New Information
 Mailed to: E, D, C/2169/DB

B-142-1 Insulating Varnish

Description

Westinghouse B-142-1 Insulating Varnish is designed specifically for high bond strength at elevated operating temperatures.

Features

- Modified Polyester
- High Bond Strength at Elevated Temperatures
- Favorable Viscosity - Low Weight Loss - High Weight per Gallon
- Excellent Resistance to Solvents, Acids, Bases
- Excellent Moisture Resistance
- Compatible with standard high temperature wire enamels, including OMEGA®

Descriptive Information

Non-Volatile	48 ± 1%
Specific Gravity	0.982 - 0.992
Viscosity (Demmler #1 @ 25° C.)	45-85 Seconds
Thinner	Xylol
Flash Point	81° F.
Gel Time @ 135° C.	50-75 Minutes
Cake Hardness (Shore Durometer)	
- 6 Hour Cake @ 135° C.	
Shore A	98/96
- Cake in Oil 48 Hrs. @ 110° C.	
Shore D	22/20
Dielectric Strength - Dry	3000 Volts/Mil
Dielectric Strength - Wet	1500 Volts/Mil

Thermal Life

Westinghouse B-142-1 has a thermal life of 20,000 hours at 195°C as determined by IEEE #57 test using MW-35 wire.

Recommended Applications

Aircraft generators & motors
 General purpose re-winding
 Specialty and standard dry-type transformers
 Integral horsepower motors (5-500 hp)

Packaging Information

Westinghouse B-142-1 High Bond Strength Varnish is available in 1-gallon cans, 5-gallon pails, and 55-gallon drums.

Bond Strength - Helical Coil

1 mil build per dip, reverse dip cure 4 hours at 150° C per dip.

Room Temperature	130° C.	150° C.	165° C.
37 Lbs.	12 Lbs.	15 Lbs.	4 Lbs.