Westinghouse Electric Corporation
Insulating Materials Division
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New Information
Mailed to: E, D, C/2169/DB

B-7-368 Vacuum Pressure Impregnating Varnish

Westinghouse B-7-368 is a 100% solids, single package, low viscosity, epoxy resin which is formulated specifically for those applications where vacuum impregnating process is used. Field evaluations indicate B-7-368 to have good retention of properties at elevated temperatures with the appropriate mica tapes. This resin can be used for insulation applications up to 13.8 KV.

Descriptive Information:

Viscosity @ 25° C. (Initial)	25-50 cps
Viscosity @ 25° C. (After 12 Weeks)	400 cps
Specific Gravity @ 25° C.	1.145 – 1.156
Weight per Gallon	9.5 – 9.6
Gel Time (10 Grms) @ 175° C.	25-40 Minutes
Hardness (Shore D)	80-90

Typical Chemical Properties:

Acid	Excellent
Base	Excellent
Solvent	Excellent
Water	Excellent

Typical Electrical Properties:

Dielectric Constant (Σ) at 150° C.	6.7
Power Factor (100 x Tan 8) at 150° C.	2-3%
Corona Resistance	Good at 6900 Volts*
Dielectric Strength ($^1/_{16}$" Thick @ 25° C.)	>300 Volts/Mil

Typical Mechanical Properties (ASTM):

Elongation % @ 25° C.	0.2
Elongation % @ 50° C.	0.9
Tensile Strength at 50° C.	0.49 x 10^6 psi
Tensile Modulus at 50° C.	7.1 x 10^6 psi

Typical Processing:

No. of Impregnation	Depending on Mica Insulation
Curing Temperature	4-8 Hrs. @ 175° C.
Impregnating Cycle	Vacuum less 4 Min. Pressure 40-100 psi (1 Hour)
Draining Characteristics	Drains Freely

Typical Storage Conditions:

Temperature	25° C. of less
To Reach 1000 Cps	6-8 Months (depending on replenishment)

Packaging Information:
Westinghouse B-7-368 Vacuum Pressure Impregnating Varnish is available in 1-gallon cans, 5-gallon pails, and 55-gallon drums.

*Function of Mica Insulation 68

Printed in U.S.A.