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# T-243-1
# Two Part Heat Cure Epoxy Motor Repair Paste

**T-243-1** is a two part, heat cured epoxy specially formulated for the encapsulation of high voltage coil systems. The combination of viscosity, good thermal shock resistance and rapid cure at elevated temperatures makes **T-243-1** an excellent candidate for these demanding applications.
Parts should be gelled at 95°C for 1 hour and post cured for 3 hours at 150°C for optimum development of physical properties. **T-243-1** is ideal for long working life for applications requiring Class F environment.

**Technical Properties:**

| Component | Color | Viscosity ay 24° C | Specific Gravity | Weight / Gallon |
|---|---|---|---|---|
| Part A Resin | Red Paste | Thixotropic Paste | 1.38 | 12.10 lb |
| Part B Hardener | Straw to Amber | 100 cps | 1.20 | 9.92 lb |
| Mixed | Transparent Amber when cured | Buttering Paste | 1.30 | 11.70 lb |

| | | |
|---|---|---|
| Mix Ratio: | by weight: | 100 : 58 |
| | by volume: | 100 : 67 |
| Cure Schedule: | | 1 hour at 95°C + 3 hours at 150°C or 10 hours at 95°C |
| Gel time in 45 gram mass at 100°C: | | 1- 2 hours |
| DSC Parameters: | Reaction Onset Temperature: | 145°C |
| | Temperature at Max. Exotherm: | 173°C |
| | Glass Transition Temperature [Tg]: | 108°C |
| Shore D Hardness: | | 80 D minimum |
| Tensile Strength: | | 6,200 psi |
| Coefficient of Linear Thermal Expansion: | | $4.94 \times 10^{-5}$ in/in/°C |
| Dielectric Strength (Volts/Mil) | | 384 |

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Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.