

STAR Technology

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ER4200 Motor Repair Paste

DESCRIPTION:

ER4200 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 ER4200 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. ER4200 is ideal for long working life for applications requiring Class F environment.

TYPICAL PROPERTIES (cured 7 Days at 75° F)	TEST METHOD	VALUE
Gel Time [100 Gram Mass at 100°C] (hours):	ASTM D2471	1- 2
Cure Time (hours):		
Shore D Hardness:	ASTM D2240	80
Tensile Strength (psi):	ASTM D638	6,200
Onset (°C):		145
Tg (° C):	ASTM D3418	108
Max Exotherm (°C):		173
Coefficient of Linear Thermal Expansion (in/in/°C):		4.94x10 ⁻⁵
Dielectric Strength (Volts/Mil)		384
Part A:		
Specific Gravity (g/cc):	ASTM D1475	1.38
Density (lbs/gallon):		12.10
Viscosity (cps):	ASTM D2393	Thixotropic Paste
Color:		Red
Part B:		
Specific Gravity (g/cc):	ASTM D1475	1.20
Density (lbs/gallon):		9.92
Viscosity (cps):	ASTM D2393	100
Color:		Amber
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	1.30
Density (lbs/gallon):		11.70
Viscosity (cps):	ASTM D2393	Buttering Paste
Color:		Amber
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

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