

## Product Information

# Epoxylite® 235SG

Trickle Impregnating Resin

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# EpoxyLite® 235SG

## Description:

Two component Epoxy trickle impregnation resin suitable for use at Class H temperatures.

EpoxyLite® 235SG offers rapid processing and cures to provide a tough resilient product with outstanding resistance to thermal degradation.

## Application:

Trickle impregnation and sealing of rotor and stator windings.

Excellent chemical resistance also assures long term service performance in all hermetic applications.

## Processing:

For a complete guide to the processing of components and machines in EpoxyLite® 235SG please refer to the separate processing data sheet for this product.

## Properties:

	Resin	Hardener	Mixture	
Appearance	Clear Amber Liquid	Pale Yellow Liquid	Clear Amber Liquid	
Viscosity	2500	300	1650	mPas @ 25°C
Specific Gravity	1.15	1.02	1.13	g / cm <sup>3</sup>
Mix Ratio	Resin to Hardener 5 : 1			p.b.w.
Mix Ratio	Resin to Hardener 4 : 3 : 1			p.b.v.
Gelation Time	35 minutes			@ 25°C
Cure Schedule	30 minutes For maximum properties + 1 hr			@ 60°C @ 130°C
Flash Point	> 200	> 200	> 200	° C

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Cured Properties		
Thermal Class	(ASTM D2307 / 20000 hrs)	180° C
Shore D Hardness	(DIN 53505)	90 @ 25° C
Glass Transition Temp.	(IEC 1006)	105° C
Tensile Strength	(ISO 527)	75 N / mm <sup>2</sup>
Elongation at Break	(ISO 527)	5 %
Thermal Coeff. of Expansion	(DIN 53752)	50.10 <sup>-6</sup> K <sup>-1</sup>
Thermal Conductivity	(ISO 8894-1)	0.26 W / mK
UL Recognition		-
Water Absorption	(ISO 62)	0.20 % @ 23°C
Dielectric Strength	( IEC 243-1 )	280 kV / cm
Dielectric Constant	(IEC 250)	4.0 @ 50Hz
Dissipation Factor	(IEC 250)	3 % @ 20° C
Volume Resistivity	(IEC 93)	> 10 <sup>13</sup> ohm / cm
Comparative Tracking Index	(IEC 112)	> 550 Volts
Storage	Minimum storage life 12 months in tightly closed containers at temperatures below 25°C.	
Handling	Refer Material safety data sheet.	
Issue	November 2007	

Our advice in application technology given verbally, in writing and by testing corresponds to the best of our knowledge and belief, but is intended as information given without obligation, also with respect to any protective rights held by third parties. It does not relieve you from your own responsibility to check the products for their suitability to the purposes and processes intended. The application, usage and processing of the products are beyond our reasonable control and will completely fall into your scope of responsibility. Should there nevertheless be a case of liability from our side, this will be limited to any damage to value of the merchandise delivered by us. Naturally, we assume responsibility for the unobjectionable quality of our products, as defined in our General Terms and conditions.