

distribuito da: ANDREA GALLO DI LUIGI S. r. l.

azienda fondata nel 1892 Via Erzelli, 9 - 16152 Genova (Italy) Tel. 010.650.29.41 www.andreagallo.it

May 2011

Transformer Fluid

OLIO SILICONICO BLUESIL[™] FLD 604V50

Description	BLUESIL [™] FLD 604V50 is a 100% dimethyl polysiloxane fluid, which has been processed and controlled to meet electrical specifications. BLUESIL [™] FLD 604V50 exhibits excellent dielectric, thermal and chemical properties which makes it an environmentally-safe replacement for PCB-containing fluids as the dielectric coolant for immersed transformers	
Applications	BLUESIL [™] FLD 604V50 is used principally as an insulating and cooling agent in immersed transformers. It may be also used in most medium-to-high tension applications (such as in switchboxes, induction coils, capacitors, resistors, etc.), where environmental and fire safety precautions must be considered (i.e. public buildings, built-up areas, underground, or near water).	
Features	 Excellent dielectric properties Excellent thermal stability Inertness and chemical resistance Good heat transfer properties Flame resistant Non-toxic to humans and the environment 	
Typical	<u>Typical Properties</u> – as supplied	
Properties	Appearance	clear liquid
	• Viscosity, 25°C, (77°F) cps	50
	Viscosity- Temperature Coefficient*	0.59
	Specific Gravity, 25°C, (77°F)	0.96
	Flash Point, (open cup) °C.(°F)	300
	Freeze Point, °C, (°F)	-50
	• Refractive index @ 25°C, (77°F)	1.402
	Surface tension @ 25°C (77°F), dynes/cm	21
	Vapor Pressure @ 200°C, (392°F), mm Hg	1.33 x 10 ⁻³
	Coefficient of Expansion, between 25 and 100°C	1.05 x 10 ⁻³
	 Dielectric Strength, ASTM D877; 25°C, kV/mm 	40 minimum
	Dielectric Strength, AFNOR NFC 27221 & CEI156; 25°C, kV/mm	50 minimum
	• Volume Resistivity, 25°C; Ω cm	1 x 10 ¹⁵ minimum
	Dielectric Constant, 25°C; 50/60 HZ	2.7
	Dielectric Dissipation Factor, 25°C; 50/60 HZ	3 x 10 ⁻⁵ minimum
	* Viscosity-Temperature Coefficient = 1-(viscosity @ 99°C/ viscosity @ 38°C)	
	Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of BLUESIL™ silicone materials. Please contact our Technical Service Department for assistance in writing specifications.	
Storage and shelf life	BLUESIL [™] FLD 604V50 when stored in the original, unopened container at room temperatures (5-25°C/41-77°F), has a shelf life of 36 months from the date of manufacture. Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.	
Safety	Please read the container labels for BLUESIL [™] FLD 604V50 or consult the Material Safety Data Sheet (MSDS) before handling for safe use, physical and health hazard information. The MSDS is not included with the product packaging, but can be obtained by contacting Bluestar Silicones at 866-474-6342 or consult your Bluestar Silicones representative.	

BLUESIL[™] FLD 604V50 is available in 200 kg containers. Certificate of Analysis for each lot

BLUESIL[™] is a trademark of Bluestar Silicones



purchased is available on request.

Packaging

BLUESIL[™] FLD 604V50



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