

FLUID SF 4901  
AMINOFUNCTIONAL SILICONE FLUID

**PRODUCT DESCRIPTION**

Aminofunctional Silicone Fluid SF 4901 is a 100% active amino silicone fluid for use as a textile softener. Since it is functionalised with moisture induced, curable endgroups, it can react either with its own or with the fabric surface to increase the wash resistance and durability of the treatment. It can easily be emulsified to stable micro emulsions, which give durable softness and grabby hand to cotton and a broad range of woven and non-woven fabrics. Emulsification instructions are available upon request from Momentive Performance Materials.

**KEY PERFORMANCE PROPERTIES**

- Imparts durable softness to fibers and fabrics and garments, preferable to cotton and cotton/synthetic blends.
- The product is easy to emulsify and formulate.
- Its amino functionality provides a high affinity to fibers and fabrics.
- The products curable endgroups can increase the durability and wash resistance of the treatment by binding either to the substrate or itself.

**PHYSICAL PROPERTIES**

TEST	UNIT	RESULT
Physical Form	-	Pourable liquid
Silicone Content	%	~100
Dyn. - Viscosity at 20°C (DIN 53019)	mm <sup>2</sup> ·s <sup>-1</sup>	600 - 1400
Specific Gravity at 20°C (EG A.3 / DIN 51757)	g·cm <sup>-3</sup>	~0,98
Amine Content	mmol·g <sup>-1</sup>	~0.45

Table 1: Typical product data values determined on commercial material whose properties might vary within the specification limits. Typical product data values should not be used as specifications. Assistance and specifications are available from Momentive Performance Materials.

**APPLICATION**

Due to its very low use levels Aminofunctional Silicone Fluid SF 4901 needs either dilution in an unpolar organic solvent or, preferred, to be emulsified for most applications prior use.

Formulations of Aminofunctional Silicone Fluid SF 4901 should preferably applied by forced application systems, like padding or kiss roll to the substrate. However, they can also be applied through dipping both as an emulsion and when dissolved in organic solvents, but there the transfer rate depends strongly on the nature of the substrate and the concentration of the formulation used.

As the textile industry almost exclusively employs aqueous application techniques, Aminofunctional Silicone Fluid SF 4901, a water insoluble material, must first be emulsified. If mainly softness is targeted micro-emulsification is recommended, for water repellency macro-emulsification is preferred.

Emulsification guidelines are available upon request from Momentive Performance Materials. These formulations are intended for evaluation purposes only and need to be adjusted and thoroughly tested for their applicability in the desired application.



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**PACKAGING** Aminofunctional Silicone Fluid Fluid SF 4901 is available in 50 kg pails and 200kg drums.

**PRODUCT SAFETY** When considering the use of any Momentive Performance Materials products in a particular application, you should review our latest Material Safety Data Sheets and undertake appropriate testing to ensure that your intended use can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact the Momentive Performance Materials sales office nearest you. Before handling any of the products mentioned in the text, please obtain available product safety information and take necessary steps to ensure safety of use.

**IMPORTANT NOTE: NEVER USE CARBON DIOXIDE WITH SF4901!**



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PRINCIPAL LOCATIONS – Regional Information

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CUSTOMER SERVICE CENTERS

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	• Specialty Fluids	T 800.523.5862	F 304.746.1654
	• UA, Silanes, Resins, and Specialties	T 800.334.4674	F 304.746.1623
	• RTV Products-Elastomers	T 800.332.3390	F 304.746.1623
	• Sealants and Adhesives & Construction	T 877.943.7325	F 304.746.1654
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