



SILTECH LLC
 2170 Luke Edwards Road
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TECHNICAL DATA SHEET

Silwax[®] D221M
 INCI Name: Pending

DESCRIPTION

SILWAX[®] D221M is one of a patent pending family of multi-domain poly-alkyl silicone, having one solid and one liquid alkyl chains present on the same molecule. The result is a polymer that does not crystallize, rather orientates to provide a soft thixotropic material. The result is a cosmetically elegant product with wider melting point range of 34-37°C. Silwax D221M provides a very soft glossy feel on the skin. The product has been described as transient petrolatum, providing the feel and cushion of petrolatum, but has minimal playtime, rapidly disappears to leave high gloss and no tack.

TYPICAL PROPERTIES

Appearance	Gel
Active Content %	100
Colour, Gardner	3 Max
Solubility (1% and 10%):	
-Water	-Insoluble
-IPA	-Insoluble
-Mineral Oil	-Soluble
-Cyclopentasiloxane (D5)	-Insoluble
-350 visc. Silicone Fluid	-Insoluble

USES AND APPLICATIONS

SILWAX[®] D221M provides gloss, softness, barrier properties and lubrication. The melt point suggests the use of the material in lipsticks to minimize syneresis. Key product applications include: sun care products to increase SPF, moisturizers, lotions, antiperspirants and deodorants and pigmented products.

Recommended usage level is between 1.0 – 3.0 wt % of the formulation

COMPARISON

A comparison of the multi-domain silicone polymer and product made by blending two silicone polymers on which there is one alkyl group each is shown below. The two products have the same average composition, but the multi-domain product is clearly different.



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Comparison

Multi-Domain alkyl silicone and blend of two different alkyl silicone polymers (same ratio)



Multi Domain alkyl silicone Blend of two alkyl silicones

SAFETY

Before handling, read the Material Safety Data Sheet and container label for safe use, physical and health hazard information

STORAGE AND SHELF LIFE

When stored in the original, unopened containers between 10 and 40°C, **SILWAX[®] D221M** has a shelf life of 24 months from date of shipping.



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PACKAGING

SILWAX[®] D221M is available in 20 Kg and 200 Kg containers.

DISCLAIMER

Siltech believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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