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TECHNICAL DATA SHEET

**Silwax® D221M**

Alkylated Silicone

**DESCRIPTION**

**Silwax® D221M** is a multi-domain poly-alkylated silicone featuring both liquid and solid alkyl pendant groups on the same molecule. The result is a polymer that does not crystallize, but rather orientates to provide a soft thixotropic material. The INCI name for **Silwax D221M** is Cetyl Hexacosyl Dimethicone.

**TYPICAL PROPERTIES**

Appearance	Soft wax
Melting range, °C	32 - 36
Active Content, %	100
Colour, Gardner	1
Solubility (1% and 10%): - Water - IPA - Mineral Oil - Aromatic solvents - Cyclopentasiloxane (D5) - 350 visc. Silicone Fluid	 - Insoluble/Insoluble - Insoluble/Insoluble - Insoluble/Insoluble - Soluble/Soluble - Insoluble/Insoluble - Insoluble/Insoluble

**USES AND APPLICATIONS**

**Silwax D221M** is an elegant ingredient for cosmetics with a relatively wide melting point range of approximately 32 – 36°C. **Silwax D221M** provides a very soft glossy feel on the skin, exhibiting sensorial properties and cushion similar to petrolatum, but with minimal playtime. **Silwax D221M** rapidly disappears to leave a high gloss and no tack.

**Silwax D221M** provides gloss and softness in personal care applications and can also be used as a lubricant and softener. Similar to other alkylated silicones, **Silwax D221M** improves spreadability on the skin and can help to boost SPF in sunscreens. **Silwax D221M** is ideal for makeup and sun care applications.

Recommended usage levels are between 1.0 – 3.0 wt.% in formulations.

**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 36 months from date of manufacture.

**PACKAGING**

**Silwax D221M** is available in 18 Kg and 180 Kg containers.

**LEGAL DISCLAIMER**

Siltech Corporation believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech Corporation, 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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