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TECHNICAL DATA SHEET

**Silwax® B116**

Cetyl Dimethicone

**DESCRIPTION**

**Silwax® B116** is a liquid alkylated silicone. Alkyl pendant groups increase oil solubility and compatibility with organic systems. The combination of a silicone backbone with alkyl functionality provides pleasant aesthetics for personal care. The INCI name for **Silwax B116** is Cetyl Dimethicone.

**TYPICAL PROPERTIES**

Appearance	Clear Liquid
Viscosity, cps	25
Active Content %	100
Colour, Gardner	1
Solubility (1% and 10%):	
-Water	-Insoluble
-IPA	-Insoluble
-Mineral Oil	-Soluble
-Cyclopentasiloxane (D5)	-Soluble
-350 visc. Silicone Fluid	-Insoluble

**USES AND APPLICATIONS**

**Silwax B116** is a clear, low viscosity alkyl dimethicone suitable for incorporation into a variety of personal care applications. The product provides excellent spreadability, gloss and emollience.

**Sun Care**

The low viscosity and alkyl functionality of **Silwax B116** make it suitable for easy incorporation into sun care formulations, where it provides enhanced oil compatibility. Enhanced oil phase compatibility translates to a considerable surface tension reduction and an increase in spreadability. Low loadings (approx. 1%) of **Silwax B116** have been shown to considerably reduce white-cast rub-out time for sunscreens using inorganic UV filters. Industry studies additionally indicate that the use of Cetyl Dimethicones in blended sunscreens, utilizing both organic and inorganic UV filters, may provide an SPF boost.

**Skin Care**

**Silwax B116** serves as an emollient and imparts barrier properties in skin care applications. A modest improvement in gloss and superior skin conditioning can also be achieved depending on the level of use. **Silwax B116** improves the spreadability of all personal care products applied to the skin, including color cosmetics, lotions, creams, antiperspirants and deodorants.

Recommended use level across all personal care applications is between 1.0 – 3.0 wt% of the formulation.

**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 B116** has a shelf life of 36 months from date of manufacture.

**PACKAGING**

**Silwax B116** 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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