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TECHNICAL DATA SHEET

Silwax® D02

Ethyl Methicone

DESCRIPTION

Silwax D02 is a patent pending low carbon content alkyl methicone designed to have the dry feel of cyclomethicone, but is free of D₄ and D₅. **Silwax D02** is a polymer under REACH and has a CAS number of 63148-54-9. **Silwax D02** has an INCI name of Ethyl Methicone.

TYPICAL PROPERTIES

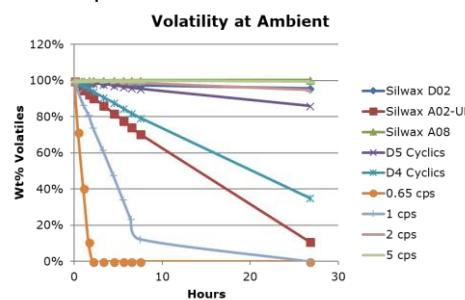
Appearance	Clear Liquid
Viscosity@ 25°C, cps	5-12
Active Content, %	100
Colour, Gardner	< 1
Solubility, (1%/10%):	
- Water	- Insoluble/Insoluble
- Triglycerides	- Soluble/Soluble
- IPA	- Soluble/Soluble
- Mineral Oil	- Soluble/Soluble
- Cyclomethicone (D ₅)	- Soluble/Soluble
- 350 cps Silicone Fluid	- Soluble/Soluble

USES AND APPLICATIONS

Silwax D02 provides excellent dry feel and lubricity in personal care formulations. The key product application is as a replacement for Cyclomethicone (D₄ and D₅), in applications including, but not limited to, antiperspirants, hair glossers, resins, moisturizers, lotions and pigmented products. The alkyl groups make it more compatible with many organic systems.

For non-volatile uses, you can also replace D₅ by blending 1-5% **Silwax D02** into low viscosity esters and triglycerides. The blend is more "siliphilic" and provides a skin feel similar to cyclomethicone. This is a very cost effective cyclomethicone replacement.

The chart plots weight loss as a function of time. Equal weights of samples were placed side by side in aluminum weighing pans and left on the benchtop at room temperature. The samples were weighed hourly four 8 hours and then a final reading at 27 hours was taken. The volatility of **Silwax D02** closely matches that of 2 cps silicone oil and is very similar to D₅.



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 D02** has a shelf life of 36 months from date of manufacture.

PACKAGING

Silwax D02 is available in 20 Kg and 200 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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