



326 Exchange Drive  
Arlington, Texas 76011  
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## Technical Data Sheet SPI-DDM

**INCI:** Diphenyl Dimethicone

**Applications:**

Skin Care  
High Shine Products  
Sun Care  
Low Tack Products

**Benefits:**

Low Residue  
High Refractive Index  
Very Low Odor Level  
Excellent Compatibility with Organic Materials

**Description:**

SPI-DDM is a high shine di-phenyl modified silicones for use in sun care, skin care antiperspirants, and hair care formulations. With the high refractive index of this material, SPI-DDM creates a high degree of shine. This makes SPI-DDM ideal for hair care products. At 100% active this material is perfect for serums. Diphenyl Dimethicone is also an incredibly soft, low tack ingredient for including into skin creams, antiperspirants and in particular sun care formulations. For these application areas, unique skin feel properties are highly desirable as are the low adhesion benefits. Usage levels vary dependent on desired gloss.

### Typical Properties

<i>Appearance</i>	Clear to Slightly Hazy, Colorless Fluid
<i>Refractive Index (at 25°C)</i>	1.505
<i>Viscosity (at 25°C)</i>	400
<i>Flash Point (at 25°C)</i>	>300
<i>CTFA / INCI Designation</i>	Diphenyl Dimethicone

The values mentioned are not intended for use in preparing specifications. We have made every effort to ensure these values are correct as of the revision date of this document.



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**Method of Use:**

SPI-DDM can be emulsified into creams or conditioners. It can also be incorporated into other silicones or mineral oil for use in oil-based conditioning products or styling aids. It is readily soluble in many organic cosmetic raw materials.

**Recommended Usage Level:**

Usage level is highly dependent on application and is usually between 0.5 - 5%.

**Packaging:**

25kg pails and 200kg drums.

**Storage and Shelf Life:**

The product should be stored below 32°C. Shelf life of the opened or un-opened container is 24 months from the date of manufacture. If you wish to use this product after this time, please contact us for details.

**Toxicity and Handling**

Please see our SPI-DDM safety data sheet for more details. Information for safe use of this product is not included in this document. Before handling please read container labels and the safety data sheet for physical, environmental and health hazard information.

**Limited Warranty Information:**

Although every effort has been made to ensure that the information contained within this data sheet is reliable, we cannot be held responsible for the correctness of the information or for any loss, injury or damage which may result from its use. Suggestions of uses should not be taken as inducements to infringe any particular existing patent.

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