

# Dow Corning® FZ-3196

## Enhance the aesthetics of your natural ingredients

The popularity of “natural” personal care products among consumers remains strong. However, the use of natural ingredients presents aesthetic issues: Vegetable oils can leave residues on the skin, or feel tacky and greasy. The challenge for formulators is to create products with ingredients of natural origin that also meet consumer demands for high performance and pleasing sensory properties. Dow Corning now offers an innovative solution to help you **GO BEYOND** the ordinary and create applications containing natural ingredients without sacrificing the light, non-greasy feel consumers want.

### Clearly Different

Dow Corning® FZ-3196 (INCI name: Caprylyl Methicone) is a volatile alkyl methyl siloxane fluid that combines compatibility and handling ease. This luxurious carrier enhances the aesthetics of vegetable oils and delivers many benefits to your formulations:

- ▶ Excellent spreadability
- ▶ Light, silky, smooth feel
- ▶ Moderate volatility – feels less dry than more volatile materials
- ▶ Excellent compatibility with both silicones and organic materials
- ▶ Co-solubilizer between silicone and organic oils
- ▶ Improves spreadability and reduces tackiness and greasy feel of vegetable oils
- ▶ Clear, colorless, low-viscosity fluid
- ▶ Easy to handle

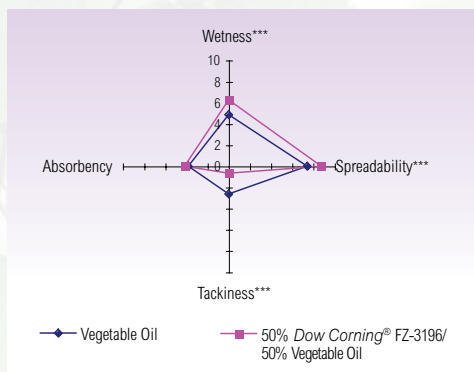
### Multiple Applications

Dow Corning® FZ-3196 is an excellent volatile carrier and dispersing medium for a wide variety of personal care applications, including:

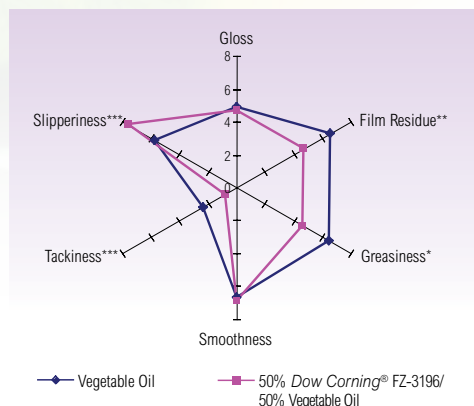
- ▶ Skin care – moisturizers, gels, makeup removers, facial cleansers
- ▶ Sun protection – sunscreens, creams, UV blockers
- ▶ Color cosmetics – foundations, eye shadows, eye liners, lipsticks, blushes
- ▶ Hair care – leave-on treatments, hair sprays, cuticle coats



### Before Absorption



### After Absorption



\*Different at 95%  
 \*\*Different at 99%  
 \*\*\*Different at 99.9%

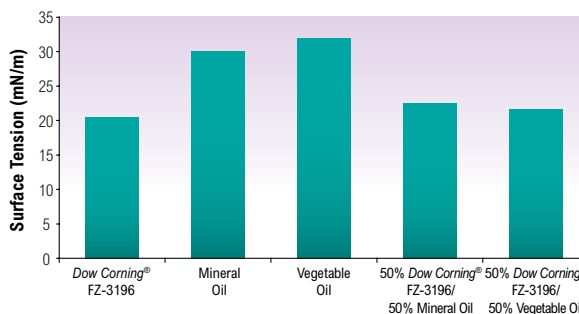
Compared to vegetable oil alone, *Dow Corning*® FZ-3196 Fluid in a 50/50 blend with vegetable oils significantly increases the perceived wetness and spreadability before skin absorption, as well as reduces the tackiness. After absorption, *Dow Corning*® FZ-3196 increases the perceived slipperiness and reduces tackiness, film residue, and greasiness on skin.

Silicone/Organic Oil, 1/1	% Co-solubilizer Added to Obtain Clear Solution	
	<i>Dow Corning</i> ® FZ-3196	Cyclopentasiloxane
Dimethicone*/Light Mineral Oil	25	42
Dimethicone*/Caprylic Capric Triglyceride	31	48
Dimethicone*/Squalane	13	19
Dimethicone*/C12-C15 Alkyl Benzoate	29	53
Dimethicone*/Sunflower Oil	119	380
Dimethicone**/Light Mineral Oil	46	72

\*Dimethicone 50 cSt  
 \*\*Dimethicone 350 cSt

*Dow Corning*® FZ-3196 acts as an excellent co-solubilizer between silicone fluids and organic oils. The above table compares the results of *Dow Corning*® FZ-3196 with those of Cyclopentasiloxane. From squalane to sunflower oil, much smaller amounts of *Dow Corning*® FZ-3196 are sufficient to obtain a clear solution.

### Surface Tension



### Proven, Tested and Cost-effective

This high-quality *Dow Corning* fluid is readily available and supported by comprehensive testing data. *Dow Corning*® FZ-3196 is easy to incorporate into many personal care applications because it is compatible with a wide range of ingredients. Use it with vegetable oils or other naturals for enhanced sensory benefits, as a carrier for other ingredients or as a dispersing medium for hydrophobic powders and pigments.

Its affordable cost-in-use and wide range of outstanding features and benefits make *Dow Corning*® FZ-3196 the natural choice for formulations that use ingredients of natural origin.

### How can we help you today?

When you need innovation, *Dow Corning* can help. *Dow Corning*® brand solutions are dedicated to meeting your needs for specialty materials, collaborative problem solving and innovation support. Learn how we can help you **GO BEYOND** at [dowcorning.com/personalcare](http://dowcorning.com/personalcare).

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