

SIBRID[®]

**Modified
Silicones**

Diethylsiloxane Series

Polydiethylsiloxanes offer the same beneficial properties as the Dimethicones with **improved compatibility with commonly used cosmetic waxes and oils**. Low surface tension enables the Polydiethylsiloxanes to spread easily on skin and hair, acting as a lubricant and de-tackifying agent. Polydiethylsiloxane has a slippery, emollient, yet non-greasy skin feel with **more body and cushion than Dimethicones** of equal viscosities. Unlike Dimethicone, the **Polydiethylsiloxanes wet pigments well**, a useful property when formulating color cosmetics.

Films of Polydiethylsiloxane are hydrophobic but non-occlusive, being permeable to gases, including moisture vapor, as are the dimethyl fluids. Polydiethylsiloxanes are tasteless, odorless, and essentially non-toxic, non-irritating, and non-sensitizing. Polydiethylsiloxane is inert, possessing excellent chemical stability.

SIBRID[®] DE 12 A low viscosity fluid with a light, dry texture, recommended for use in powder cream color cosmetics, eye shadows, lotions intended for oily skin, and hair care.

SIBRID[®] DE 15 A light emollient that provides smooth spreading and cushion in skin care products and color cosmetics.

SIBRID[®] DE 23 A more lubricious emollient, recommended for use in skin treatment and lip products.



***Enabling Your Technology
through the development
and manufacture of custom
silicones and silanes.***

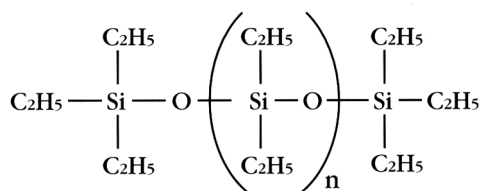
SIBRID®

Diethylsiloxane Series



Product Name	Viscosity cSt.	Pour-Point °C	Density	Refractive Index	Flashpoint °C
Diethicone* SIBRID® DE 12	7-12	-110	0.913	1.439	110
Diethicone* SIBRID® DE 15	40-50	-110	0.958	1.442	170
Diethicone* SIBRID® DE 23	200-400	-96	0.991	1.447	256

*INCI name applied for



Formulation Guidelines:

	DE 12	DE 15	DE 23
Dimethicone/10cs	S	S	S
Ethylhexyl Palmitate	S	S	S
Octyldodecyl Stearate	S	S	S
Castor Oil	I	I	I
Octyldodecanol	S	S	S
Tri-isostearyl Citrate	S	S	PS
Hydrogenated Polydecene	S	S	S
Cyclopentasiloxane	S	S	S

S = Soluble
PS = Partially Soluble
I = Insoluble
D = Dispersible

Long Wearing High Shine Lipstick 1-691

SIBRID® DE 15 is combines the exceptional slip of silicones with organic compatibility to give smooth, glide on application. SIBRID® PM 212 provides gloss and adhesion to the lips.

Ingredient (Supplier)	INCI Name	%
Phase A		
Crystal O (Caschem)	Castor Oil	8.45
Eutanol G NF®	Octyldodecanol	10.00
SIBRID® DE 15 (Gelest)	Diethicone (proposed)	10.00
SIBRID® PM 212 (Gelest)	Lauryl Phenylpropyl Dimethicone (proposed)	10.00
Schercemol TISC (Noveon)	Triisostearyl Citrate	20.00
Carnauba #1		1.50
Candelilla, refined		7.00
Microwax SP 19 (Strahl & Pitsch)	Microcrystalline Wax	3.50
Ozokerite 170D (Ross Wax)	Ceresin	2.00
Methylparaben		0.20
Propylparaben		0.10
Ascorbyl Palmitate		0.01
Phase B		
c37-4433 (Sun Chemical)	Blue 1 Lake	0.10
c19-7711 (Sun Chemical)	Red 7 Lake	0.75
c19-7712 (Sun Chemical)	Red 6 Lake	1.35
A-1205 (Color Techniques)	Iron Oxides	6.50
A-8112 (Color Techniques)	Titanium Dioxide	1.50
Crystal O (Caschem)	Castor Oil	9.00
Phase C		
AS Flamenco Red 420C (Engelhard, Color Techniques)	Mica, Titanium Dioxide, trimethoxycaprylsilane	8.00
		100.00

Manufacturing Instructions:

Combine Phase A. Heat to 85°C with stirring. Combine Phase B with stirring. Mill over a three roll mill until particles are <10 µm. Add Phase B and Phase C to Phase A with stirring. Deair with vacuum or by slow stirring. Fill into molds at 72-75°C.



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