

# SiBRID<sup>®</sup>

Modified  
Silicones

## Alkyl-Arylalkyl Series

Skin & Sun Products	Creams & Lotions	Lip Products	Powder Creams	Foundations
AM 108	AM 114	AM 108 AM 114	AM 118	AM 218
PM 212	AM 218	PM 212		

**SiBRID<sup>®</sup> AM 108** is a C<sub>8</sub> silicone that provides a rich, emollient feel in skin treatment products. SiBRID<sup>®</sup> AM 108 spreads to form a non-tacky protective layer, leaving the skin feeling softer with improved flexibility. In lipsticks, SiBRID<sup>®</sup> AM 108 softens and smooths the lips and has good compatibility with other ingredients.

**SiBRID<sup>®</sup> AM 114** is a C<sub>14</sub> modified silicone wax having a melting point close to that of skin temperature. Incorporated into creams and lotions, SiBRID<sup>®</sup> AM 114 forms a non-tacky protective layer on the skin with a rich emollient feel. In lipsticks, SiBRID<sup>®</sup> AM 114 provides excellent slip with conditioning, softening, and smoothing properties.

**SiBRID<sup>®</sup> AM 118** is a C<sub>18</sub> modified silicone wax used to provide structure to powdercream products while maintaining slip and spreading properties. SiBRID<sup>®</sup> AM 118 is also used to gel combinations of silicones and conventional oils.

**SiBRID<sup>®</sup> AM 218** is a C<sub>18</sub> modified silicone copolymer wax that offers greater slip than SiBRID<sup>®</sup> AM 118. In creams, lotions and foundations, SiBRID<sup>®</sup> AM 218 permits a smooth, silky application with a rich, cushiony afterfeel.

**SiBRID<sup>®</sup> PM 212** is a viscous, high refractive index C<sub>12</sub> /phenylpropyl modified silicone that gives high luster and shine to lip products. Films formed using SiBRID<sup>®</sup> PM 212 resist feathering and creeping, allowing the formulation of long wearing, emollient lip glosses and lipsticks. SiBRID<sup>®</sup> PM 212 can also be used in skin and sun care products to improve skin adhesion and film forming capability.



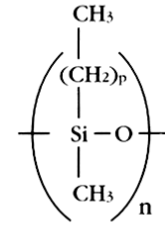
*Enabling Your Technology  
through the development  
and manufacture of custom  
silicones and silanes.*

# SIBRID<sup>®</sup>

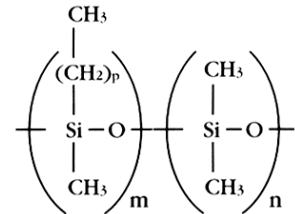
## Alkyl-Arylalkyl Series



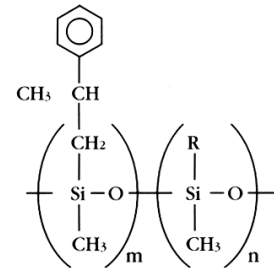
INCI Name	Viscosity cSt.	Pour- Point, °C	Specific Gravity	Refractive Index	Surface Tension	Flashpoint °C
Caprylyl Methicone						
<b>AM 108</b>	600-1000	-44	0.91	1.445	30.4	250
Myristyl Methicone*						
<b>AM 114</b>	1500-2000	30	0.89	1.455	35.0	—
Stearyl Methicone						
			(Solid at room temperature)			
<b>AM 118</b>	250-300 (50°C)	50	0.89 (50°C)	1.443	39.5	—



Stearyl Dimethicone						
			(Solid at room temperature)			
<b>AM 218</b>	200-500 (50°C)	40	0.89	1.440	—	—



Lauryl Phenylpropyl Dimethicone*						
<b>PM 212</b>	1100-1300	—	0.91	1.464	—	277



\*INCI name applied for

### Formulation Guidelines:

	AM 108	AM 114	AM 118	AM 218	PM 212
Dimethicone/10cs	I	I	I	I	I
Ethylhexyl Palmitate	S	S to 60%	S 10% soft gel 50% translucent solid	S 10% soft gel 50% translucent solid	S
Octyldodecyl Stearate	S	S to 50%	S 10% soft gel 50% translucent solid	S 10% soft gel 50% translucent solid	S
Castor Oil	D	D	Dhot	Dhot	D
Octyldodecanol	S	S	S	S	S
Tri-isostearyl Citrate	S	S	S 10% soft gel 50% translucent solid	S 10% soft gel 50% translucent solid	S
Hydrogenated Polydecene	S	S	S 10% gel 50% solid	S 10% gel 50% solid	S
Cyclopentasiloxane	S	I	I	I	S

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

### Powdercream Makeup 1-701

Powder cream products are hot pour formulations that apply like creams, yet have the smooth, dry feel of powders. SIBRID<sup>®</sup> DE 12 has the characteristic light, dry feel of a Dimethicone, yet can act as the sole solvent for the formula waxes. SIBRID<sup>®</sup> AM 118 is a silicone wax that provides structure to the product without the tack associated with most conventional waxes.

Ingredient (Supplier)	INCI Name	%
<b>Phase A</b>		
Syncrowax HRC (Croda)	Tribehenin	5.70
SIBRID <sup>®</sup> AM 118 (Gelest)	Stearyl Methicone	6.60
SIBRID <sup>®</sup> DE 12(Gelest)	Diethicone (proposed)	39.69
Emerest 2452 (Cognis)	Polyglyceryl-3 Diisostearate	0.70
Methylparaben		0.20
Propylparaben		0.10
BHT		0.01
<b>Phase B</b>		
AS 5812 Titanium Dioxide (Color Techniques)	Titanium Dioxide, Triethoxycaprylylsilane	15.00
AS 5137 Yellow Iron Oxide (Color Techniques)	Iron Oxides, Triethoxycaprylylsilane	2.80
AS 5126 Red Iron Oxide (Color Techniques)	Iron Oxides, Triethoxycaprylylsilane	1.20
AS 5146 Black Iron Oxide (Color Techniques)	Iron Oxides, Triethoxycaprylylsilane	0.25
AS 50707 S'Duan Talc (Color Techniques)	Talc, Triethoxycaprylylsilane	9.75
AS 5061 Sericite (Color Techniques)	Mica, Triethoxycaprylylsilane	12.00
AS 5071 Nylon	Nylon-12, Triethoxycaprylylsilane	6.00
		100.00

### Manufacturing Instructions:

Combine Phase A. Heat to 80°C with stirring. When clear, add Phase B with stirring. Mill with high shear until no undispersed particles remain. Deair with vacuum or by slow stirring. Fill into pans at 72-75°C.



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