

Silbione® MDM 1000

October 2017

Dimethicone

Description Silbione® MDM 1000 is a linear polydimethylsiloxane fluid with low viscosity and low molecular weight. Helps to improve the water-resistance properties in sun care emulsions.

Applications

- Skin care : creams and lotions – recommended use levels 0.5 – 2% for soft feel; 5 – 10% for a protecting effect.
- Deodorants and antiperspirants : recommended use levels 0.5 – 2% for detackification.
- Make up removers, shaving lotions and shaving foams ; recommended use levels 0.5 – 2%
- Sun products : protection and waterproof effect – recommended use levels 1 – 10%

Advantages

- Imparts a silky feel to skin.
- Allows skin respiration.
- Imparts soft feel and shine to the hair.
- Helps to improve the water-resistance properties in sun care emulsions.

Typical Properties

<u>Properties</u>	
• 233A Identity (I.R. Spectrum)	Conform
• 692A Appearance (Visual)	Limpid liquid with no extraneous matter
• 385A Color (Hazen)	Transparent
• 698A Turbidity (NTU)	4 max.
• 854A Odor	none to slight
• 638A Volatile matters (150°C-1g-2h ;%)	0.3 max.
• 639A Acidity (in NaOH 0.01N ; ml)	0.15 max.
<i>For neutralization of 2g product</i>	
• 477A Phenyl compounds (DO)	0.2 max.
• 344A Mineral oils (mg/kg)	0.1 max.
• 640A Heavy metals (Pb ; %)	0.0005 max.
• 95A0 Vicosity @ 25°C (mm ² /s)	900 -1100
<u>2. Physico-Chemical Properties</u>	
• Specific gravity (25°C ; kg/m ³)	ca. 970
• Refractive index @ 25°C	ca. 1.403
• Surface tension (25°C ; mN/m)	ca. 21.2
• Flash point (closed cup) (°C)	300
• Soluble in :	Ethyl, Butyl Acetate, Isopropyl Palmitate, Isopropyl ether. Cyclomethicones, Phenyl Trimethicone, Lauryl alcohol.
• Insoluble in:	Water, Vegetable oils, Fatty acids, Glycerine. Ethanol (95%), Isopropanol, Stearyl alcohol. Ethylene Glycol, Propylene glycol, Glycerol, Glycerol Monostearate. Petrolatum, Mineral oil.

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of Silbione® silicone materials. Please contact our Technical Service Department for assistance in writing specifications.



Silbione® MDM 1000

Storage and shelf life

Silbione® MDM 1000 when stored in its original unopened packaging, may be stored for 36 months from the date of manufacture. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.

Safety

Please read the container labels for **Silbione® MDM 1000** or consult the Safety Data Sheet (SDS) before handling for safe use, physical and health hazard information.

Packaging

Silbione® MDM 1000 is available in 200kg containers.

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 EUROPE	 NORTH AMERICA	 LATIN AMERICA	 ASIA PACIFIC
<i>Elkem Silicones France 21 Avenue Georges Pompidou F69486 Lyon Cedex 03 FRANCE Tel. (33) 4 72 13 19 00 Fax (33) 4 72 13 19 88</i>	<i>Elkem Silicones USA Two Tower Center Boulevard Suite 1601 East Brunswick, NJ 08816-1100 United States Tel. (1) 732 227 2060 Fax (1) 732 249 7000</i>	<i>Elkem Silicones Brazil Ltda. Av. Maria Coelho Aguiar, 215 Bloco G -1º Andar 05804-902 - São Paulo - SP - Brazil Tel. (55) 11 3747 7887 Fax (55) 11 3741 7718</i>	<i>Elkem Silicones Hong Kong Trading Co. Ltd. Unit C, 18/F Manulife Tower 169 Electric Road North Point-Hong Kong Tel. (852) 3106 8200 Fax (852) 2979 0241</i>
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