

MIRASIL® CM5



Description

CTFA/INCI Name : CYCLOPENTASILOXANE

CAS N° 541 – 02 – 6

EINECS N° 208-764-9

MIRASIL CM5 is a decamethylcyclopentasiloxane.

Examples of applications

Antiperspirants, deodorants, hair care, skin care, perfumes.

Advantages

MIRASIL CM5 is a volatile carrier that provides a soft silky feel, and improves spreading properties for a wide range of personal care applications.

- Antiperspirants, deodorants : transient carrier for active salts.
- Hair care: improves wet combing, yet leaves no residue.
- Skin care: non- comedogenic emollient and carrier.
- Perfumes: delivers fragrance and gives skin a smooth non-cooling feel.

Recommended use levels:

Antiperspirants, deodorants: 3 – 10%.

Hair care: 1 – 5% Skin care: 3 – 10%.

Perfumes: 0.5 – 3%.

Characteristics

Appearance	Clear colourless liquid
Colour, Hazen	< 20
Turbidity, NTU	< 4
Viscosity, at 25 °C, mm ² /s, approx.....	3.9
Specific gravity at 25 °C, kg/m ³ , approx.....	950
Heavy metals, ppm Pb	< 5
Mineral oils, mg/kg	< 0.1
Refractive Index, 25 °C, approx.....	1.395
Surface tension at 25 °C, mN/m, approx	18.3
Odour	None to slight
Decamethylcyclopentasiloxane, %	> 97.0
Octamethylcyclotetrasiloxane, %	< 0.9
Decamethylcyclopentasiloxane + Dodecamethylcyclohexasiloxane, %.....	> 99.7
Acidity (in NaOH 0.01N, ml) for neutralization of 2 g product.....	< 0.15
Solubility in water, 0.1 g in 10 ml at 25 °C	non miscible
Solubility in pure ethanol at 25 °C (1.0 g in 10 ml).....	miscible
Crystallization point, °C, approx.....	- 40
Boiling point at 1013 mbar, °C, approx	210
Vapour pressure at 20 °C, kPa	0.025
Flash point (closed cup), °C, approx.....	80
Volatility evaporation rate (g/min), NF 30-302, at 80 °C	0.075
Volatility evaporation time (sec), DIN 53-170, at 23 °C	8400

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Characteristics (cont')

Soluble in:
Ethyl, Butyl acetates, Ethanol, Isopropanol.

Insoluble in:
Water and Ethylene Glycol.

Packaging

MIRASIL CM5 is available in:
- 4 drums 195 kg / Pallet 780 kg
- 1 Ton container
- Tanker

Storage and shelf life

When stored in its original unopened packaging, at a temperature below +40°C, the **MIRASIL CM5** may be stored for up to 36 months from the date of manufacture clearly marked on the packaging.

Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

Safety

Please consult the Safety Data Sheet of **MIRASIL CM5**.

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