### Description

**C.T.F.A. / I.N.C.I. Name:** Polymethylsilsesquioxane  
**CAS n°:** 68554-70-1  

**MIRASIL MICROPEAL 40** consists of highly pure spherical silicone resin particles with 3 dimension network. This white, fine silicone resin powder offers an exceptional skin feel in various cosmetic formulations. Further benefits are water repellence, heat resistance and excellent lubricity while maintaining a non greasy touch.

![Picture 1: Structure](Image)

### Examples of applications

**MIRASIL MICROPEAL 40** is dispersed very uniformly in the formulation.  
- Facial creams and lotions,  
- Anti-aging products,  
- Foundations,  
- Pressed powders,  
- Lipsticks,  
- Mascara,  
- Eye shadows.  

Product is effective even at low addition level (from 0.2 up 5% according to the specific need).

### Advantages

**MIRASIL MICROPEAL 40** is very useful material because it has a lot of merits of both inorganic powder and polymer powder. Normally, inorganic powder has excellent heat and chemical resistance while it has dry feeling. On the other hand, polymer powder has very soft and creamy feeling while it is weak against heat and chemicals.  

**MIRASIL MICROPEAL 40** has outstanding heat and chemical resistance with silky and creamy feeling.  
- Provides excellent lubricity,  
- Improves water repellence,  
- Soft focus effect,  
- Imparts soft, smooth, silky feel,  
- Prevents pigment and powder agglomeration,  
- No Melting by heat (even up to 900 °C).
Characteristics

Physical Form ......................................................... Spherical micro powder
Colour ................................................................. White
Bulk specific gravity, g/ml ........................................... 0.4 to 0.6
Specific gravity, g/cm³, approx.................................... 1.3
Oil absorption, ml/100 g, approx ................................. 60
Refractive Index ........................................................ 1.43
Particle size, µm, approx ........................................... 4.0
pH ........................................................................... 5 to 9
Average surface area range, m²/g ................................ 20 to 30

Information and data

- Water repellency:

For makeup products, water repellent property is very important, especially in foundation. MIRASIL MICROPEAL 40 provides better solution thanks to its hydrophobic character.

As shown on picture 1, the surface of MIRASIL MICROPEAL 40 is covered with methyl groups, which makes it suitable for makeup applications thanks to resistance to perspiration.

- Ball bearing effect:

MIRASIL MICROPEAL 40 is round shaped and has smooth surface. This results in a nice ball bearing effect, which will provide better silky texture to final cosmetic products and improve the spreading behavior on skin. In addition, the mono disperse size distribution leads to excellent skin feel (see SEM photograph in picture 2 and particle size distribution in picture 3).
MIRASIL® MICROPEARL 40

Packaging

MIRASIL MICROPEARL 40 is available in 20 kg pails.

Storage and shelf life

When stored in its original unopened containers, between +2°C and +30°C, MIRASIL MICROPEARL 40 has a shelf life of 24 months from 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 MICROPEARL 40.

Visit our website www.bluestarsilicones.com

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