

開発中

Under development

# マイクロプラスチック代替粉体

Microplastic substitute powder

独自の表面処理技術による感触の調整

Unique surface treatment technology to adjust feeling



製品情報



Cosmetic ingredient site

## 特長 Feature

### ● エコな処理方法 (メカノケミカル)

Eco-friendly treatment (mechanochemical)

- 溶剤フリー  
Solvent-free
- 室温で処理可能 (低エネルギー製造)  
Can be processed at room temperature (low-energy process).

### ● 組成の自由度が高い

High flexibility in combinations

- 希望の表面処理剤にて処理が可能  
Can be treated with desired surface treatment agent.
- 処理条件 (濃度、組合せ、処理エネルギー) の最適化により、感触の調整が可能  
Feel can be adjusted by optimizing treatment conditions (concentration, combination, treatment energy).

### ● 表面状態の変化

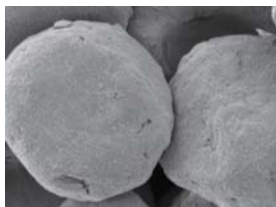
Change in surface condition

SEMによる観察 (×5,000)

Observation by SEM (×5,000)



表面処理前の母粉体  
Core powder  
before surface treatment



表面処理後の複合粉体  
Composite powder  
after surface treatment

### ● 表面処理効果～疎水性の付与～

Effect of surface treatment hydrophobicity

疎水性の表面処理剤で複合化した粉体を30分間攪拌し、観察した。  
Composite with hydrophobic treatment agent Stirred for 30 minutes and observed.



表面処理前の母粉体  
Core powder  
before surface treatment



表面処理後の複合粉体  
Composite powder  
after surface treatment

### ● 母粉体と処理剤の組合せ例

Examples of core powder and treatment agent combinations

母粉体  
Core powder

- セルロース  
Cellulose
- でんぷん  
Starch
- シリカ  
Silica
- コーンスターチ  
Corn starch
- 酸化亜鉛  
Zinc oxide
- 酸化チタン  
Titanium oxide

処理剤  
Treatment agent

- 高級アルコール  
Higher alcohols
- 高級脂肪酸  
Higher fatty acids
- 金属石ケン  
Metal saponics
- カチオン界面活性剤  
Cationic surfactants
- アルキル化多糖類  
Alkylated polysaccharides
- アルキル化アミノ酸  
Alkylated amino acids
- 無機顔料  
Inorganic pigments
- ロウ  
Wax
- 天然由来成分  
Natural origin ingredients

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For detailed information, please contact below.  
Sanyo Chemical Industries, Ltd.  
URL <https://www.sanyo-chemical.co.jp>

Date issued: May 14, 2025

