

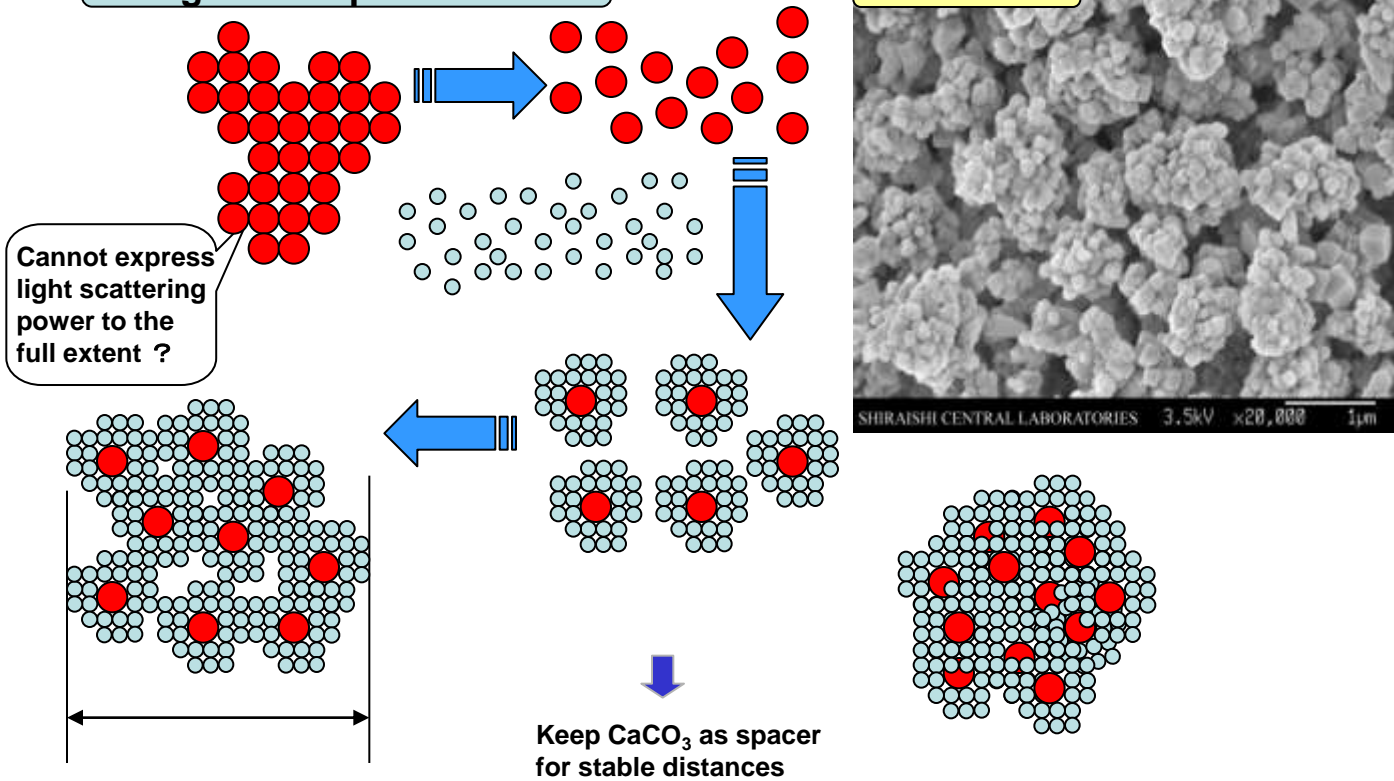
New White Pigment FP-430

FP-430 is a new Pigment Complex designed by Synthetic Calcium Carbonate and Titanium Dioxide.

FP - 430 Characteristics

- Improves TiO_2 Dispersion by partial replacement with this Pigment Complex.
- Enhance Brightness and Opacity by maximizing its light scattering property.
- Expect 20-40% TiO_2 partial replacement to lead cost reduction of the formulation.

Design Concept of FP - 430



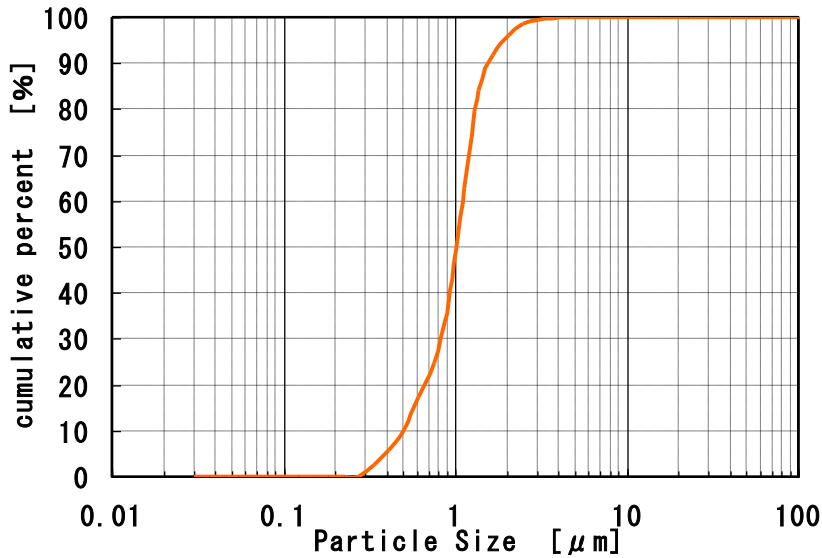
Powder Properties of FP-430

※ typical Value

ISO Brightness	96.0%
Residue on 45 μm sieve	0.1%
BET Specific Surface Area	10.3 m^2/g
pH	9.3
Moisture	1.0%
Boiled Linseed oil Absorption	44ml/100g
Specific gravity	3.0
Average Particle Size	1.0 μm

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Particle Size distribution by laser

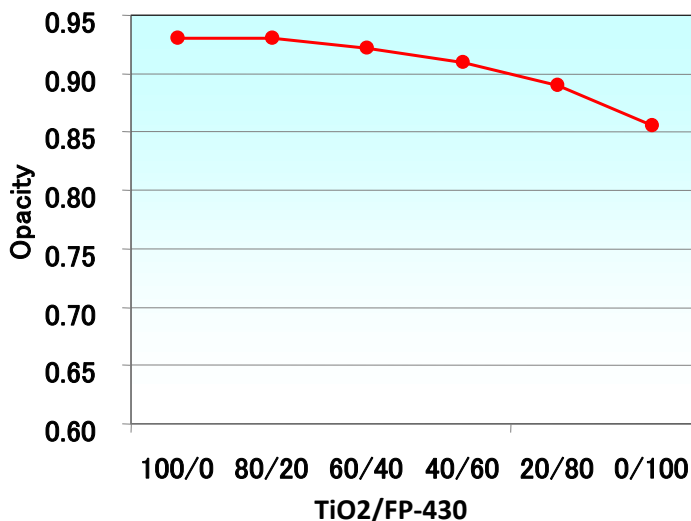


Evaluation Sample of FP-430 in Paint

In case of water based emulsion paint

- PVC Index=60
- Resin:Acrylic Styrene Resin
- Pigment Standard ratio GCC:TiO₂=80:20
- Replacement of TiO₂ by 20,40,60,80,100%

Correlation between TiO₂ Replacement Ratio & Opacity at 60 of PVC



Expect 20-40% TiO₂ partial replacement