

Products

Refined Bentonite

High Aspect Ratio Barrier Property Coating Effect Adsorption Caking Property High Heat Resistance

Product Name	Mineral	Form	Viscosity (Representative value) 4% Dispersion Liquid (60rpm)	Adoption Example
Kunipia-F*	Montmorillonite	Powder	300 mPa·s	Cleaning Agent Water Paint
Kunipia-G*	Montmorillonite	Flake	300 mPa·s	Flowable Agrochemical Product Fireproof, Flame Retardancy Filler for Resin
Kunipia-G4*	Montmorillonite	Flake	500 mPa·s	Barrier Film Cosmetics

Above are representative values, not standard values.

Synthetic Smectite

Transparency High Thixotropy High Viscosity Adsorption High Heat Resistance

Product Name	Mineral	Transparency 2% Dispersion Liquid	Viscosity (Representative value) 4% Dispersion Liquid (60rpm)	Adoption Example
Sumecton-SA*	Saponite	75	4,000 mPa·s	Cleaning Agent Water Paint Flowable Agrochemical Product Transparent Filler for Resin Transparent Barrier Film Cosmetics*
Sumecton-ST	Stevensite	97	1,000 mPa·s	
Sumecton-SWN*	Hectorite	95	4,000 mPa·s	
Sumecton-SWF	Hectorite	95	6,000 mPa·s	

Above are representative values, not standard values.

*Conform to "Japanese Standards of Quasi-drug Ingredients 2021"

Product Appearance

Refined Bentonite



Kunipia-F



e.g. Kunipia-F
4wt% dispersion liquid

Synthetic Smectite



Sumecton-SA



e.g. Sumecton-SA
2wt% dispersion liquid



1-10-5 Iwamoto-cho, Chiyoda-ku, Tokyo
101-0032, Japan
Tel: +81-3-3866-7251 Fax: +81-3-3866-2256
URL: <http://www.kunimine.co.jp/>

KJ-02-2111-03

For Water-Based Solvent

Kunipia -F/-G/-G4

Refined Bentonite

Sumecton -SA/-ST

-SWN/-SWF

Synthetic Smectite



About BENTONITE

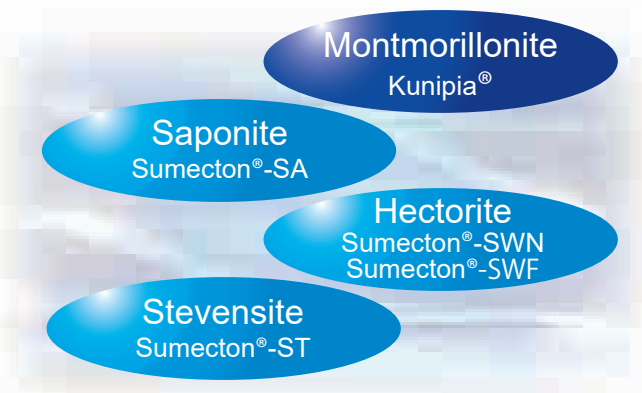
"BENTONITE" is the name of rock(the general term for aggregate of mineral), the main component is "Montmorillonite" as clay mineral.

Kunipia is refined inorganic material, which is refined montmorillonite to be high purity.

Bentonite

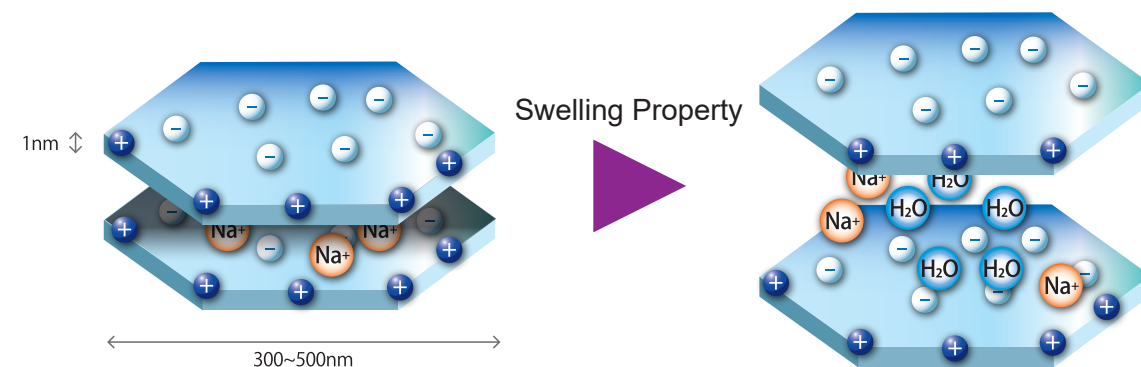


About SUMECTITE



Kunipia and Sumecton are called "Layered Silicate Mineral" belong to Smectite group as clay mineral. Smectite is included Montmorillonite, Beidellite, Saponite, Stevensite and Hectorite.

Montmorillonite Crystal



Kunipia / Sumecton Properties & Benefits - Recommended for use

Viscosity

To obtain characteristic thixotropic property of inorganic substance by forming the card-house structure.

◎Functional Coating, Cosmetics, Pharmaceutical Product
○Inorganic Binder, Adhesive, Polishing Agent, Flowable Agrochemical Product

Caking Property

By wetting, unique caking property of inorganic substance is obtained, and use as inorganic binder.

◎Ceramic Molding
○Building Material, Ceramics

Flame Retardance Heat Resistance

Bentonite is inorganic material and also flame retardant material, has extremely high heat resistance.

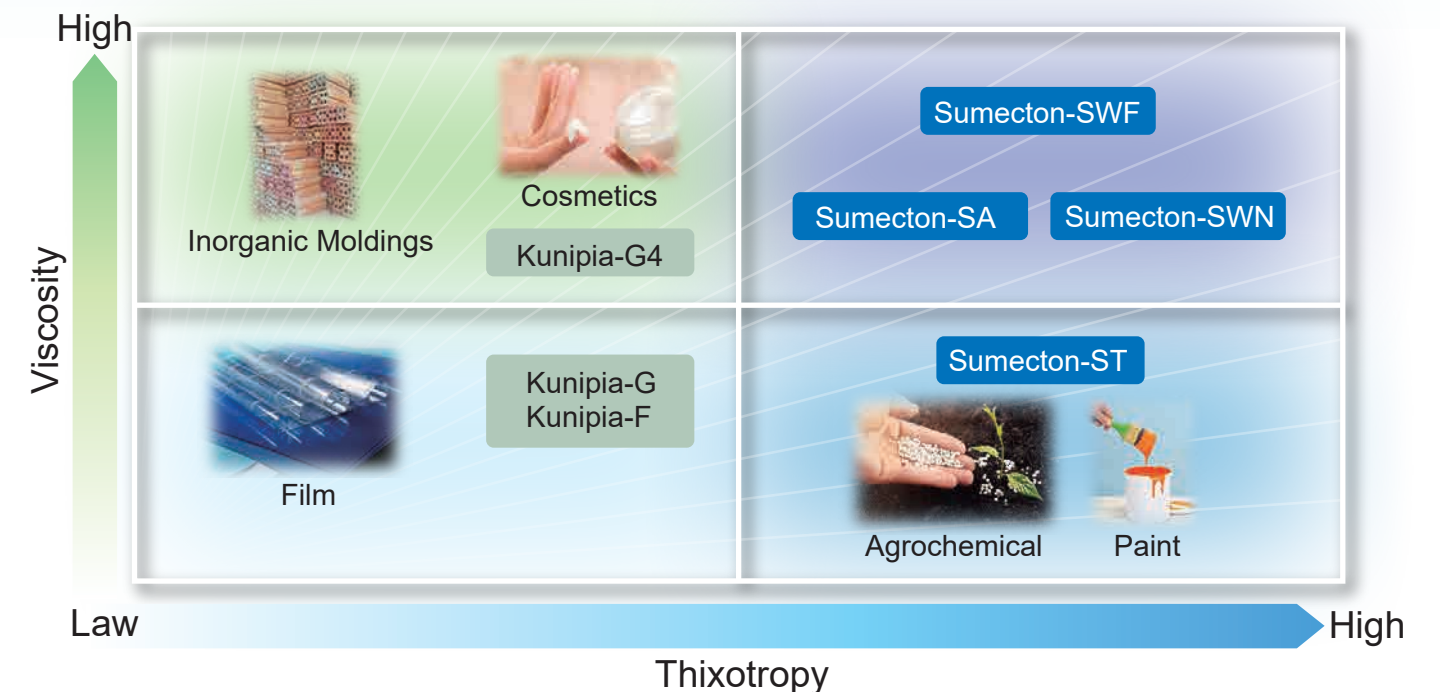
◎Heat Resistant Material, Coating Agent
○Inorganic Binder, Paint

new Gas Barrier Property

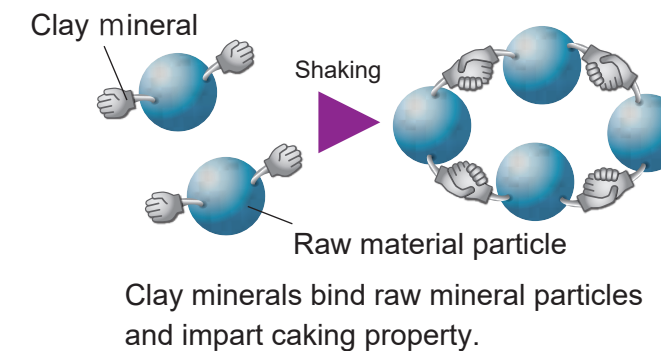
Expect gas barrier effect as using high aspect ratio.

◎Functional Coating, Functional Resin
○Cosmetics, Packaging Material

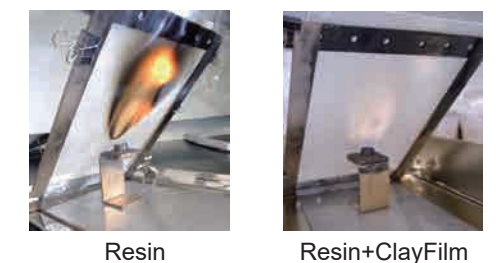
Viscosity x Thixotropy



Caking Property

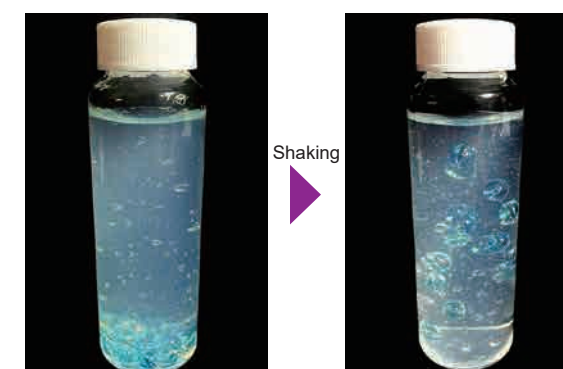


Flame Retardance Heat Resistance



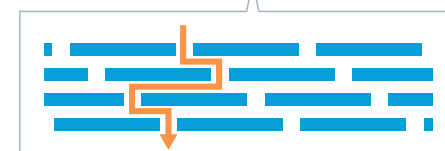
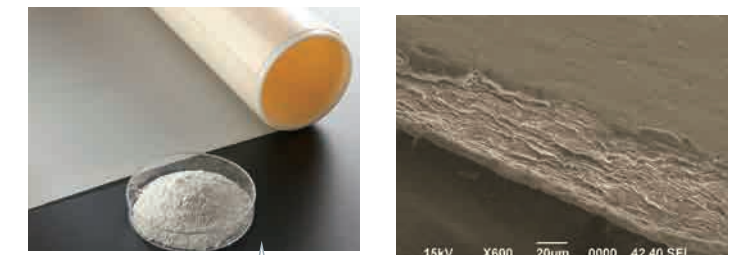
By applying clay film to the resin, it imparts flame retardance and heat resistance..

Sedimentation Preventive of Glass Beads



To uniformly disperse pigments and particles so prevent sedimentation.

new Gas Barrier Property



Point :
By laminating clay crystals with high aspect ratio, gas barrier property is obtained.