

## Products

### Organic Bentonite

Thixotropy (Rheology Modification) Coating Effect Naturally Delivered

Product Name	Mineral	Substance Name	Applicable Solvent	Adoption Example
Kunivis-110	Montmorillonite	Trimethyl stearyl ammonium bentonite	○Toluene ○Xylene △NMF	Oil Paint Resin Agrochemical Grease, Adhesive Agent
Kunivis-127	Montmorillonite	Benzyl dimethyl stearyl ammonium bentonite	○Toluene ○Xylene △NMF	Oil Ink Wax
Moistnite-WO*	Montmorillonite	Dimethyl stearyl ammonium bentonite	○Isododecane ○Cyclopentasiloxane ○Isononyl Isononanoate	Oil Paint Resin Cosmetics

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

### Organic Smectite

Thixotropy (Rheology Modification) Transparency High Purity Synthetic Product Suitable for Various Solvents

Product Name	Mineral	Substance Name	Applicable Solvent	Adoption Example
Sumecton-SAN	Hectorite	Dimethyl distearyl ammonium hectorite	○Toluene ○Xylene △NMP	Oil Paint Coating Agent
Sumecton-STN	Hectorite	Sodium silicate, Magnesium trioctyl methyl ammonium ※mixture	◎NMP, DMF ○MEK, Acetone △Ethyl acetate, Butyl acetate	Transparent Resin Filler Agrochemical Flowabl Oil Ink
Sumecton-SEN	Hectorite	Sodium silicate, Magnesium chlorination dipolyoxy ethylene palm alkyl (C <sub>8</sub> ~C <sub>18</sub> ) methyl ammonium ※mixture	○Ethanol Butyl acetate Normal propyl alcohol	

## Product Appearance

Organic Bentonite



Kunivis-110



e.g. Kunivis-110  
2wt% dispersion liquid

Organic Smectite



Sumecton-SAN



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

## For Organic Solvent

**Kunivis-110,127**  
**Moistnite-WO**

*Organic Bentonite*

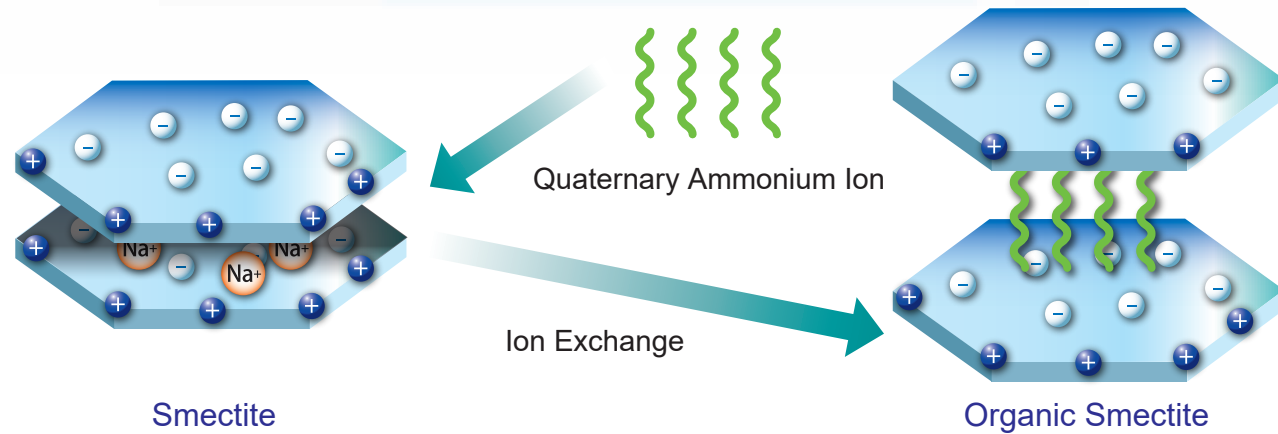
**Sumecton-SAN/-STN/-SEN**

*Organic Smectite*



## About Organic Smectite

Originally, Smectite is an inorganic substance, and does not good compatibility with organic one. However, since bonding force between the unit layer surface and interlayer cation is weak, it can be easily exchanged with other ions. Taking advantage of this property, organic smectite can be obtained by ion exchange with the quaternary ammonium ion.



To improve compatible with organic substances by providing organic smectite.

## Organic Bentonite and Organic Smectite Properties & Benefits - Recommended for use

<b>Lipophilic Property</b>	By exchange interlayer cation, possible to disperse in organic solvent other than water.	<input checked="" type="radio"/> Functional Paint, Enhance Function of Resin <input type="radio"/> Cosmetics
<b>Caking Property</b>	Even in organic solvent, exhibiting a thixotropic property.	<input checked="" type="radio"/> Molding agent, Functional Paint <input type="radio"/> Cosmetics <input type="radio"/> Inorganic Moldings, Adhesive Agent, Grease, Agrochemical Flowable
<b>Sedimentation Preventive</b>	Viscosity can prevent sedimentation of component with high specific gravity and particles.	<input checked="" type="radio"/> Better Coating Characteristics, Functional Paint, Abrasive Agent <input type="radio"/> Inorganic Moldings, Coat Agent
<b>Dispersion Stability</b>	Stability is improved by repelling each other and maintaining dispersion. Greatly useful for dispersing pigments, etc.	<input checked="" type="radio"/> Paint, Oil-based Ink, Cosmetics <input type="radio"/> Functional Paint, Agrochemical

## Dispersive Region

Low Polarity Solvent		High Polarity Solvent		
Aromatic Hydrocarbon		Ester, Ketone	Alcoholic	
Mineral spirit Oleic acid	Toluene Xylene	Ethyl acetate Butyl acetate	Acetone MEK	Ethanol Methanol
Kunivis-110, Kunivis-127				
Moistnite-WO				
Sumecton-SAN				
		Sumecton-STN		
		Sumecton-SEN		