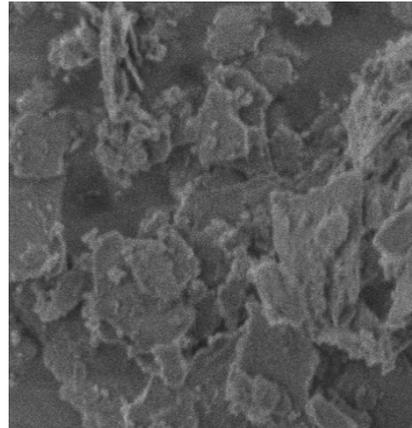


NAKPRO ARC5

Outlook

Talc is a metamorphic rock which has a layered structure, which means if you start slicing the talc rock along its plate plane, we can separate individual layer of mineral which is an absolute thin section not more than some micro meter thick. So when you look at it talc particles through an electron microscope you can observe these plates



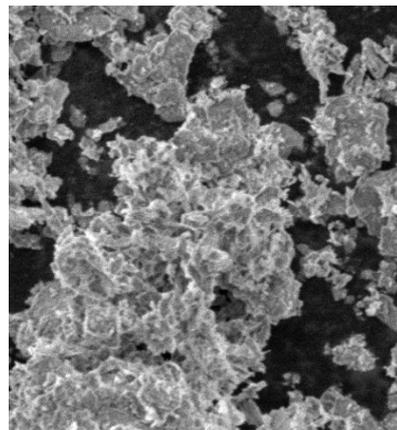
SEM MAG: 1.65 Kx 20 Microns Scale

Nano Particle Generation and Surface Modification

At NGF we have created manufacturing processes to modify these plates on Nano scale and engineer them to the desired shape according to the Industrial need and demands. We can form the shapes from rhombus (Uniform) to needle like shapes (High Aspect Ratio).

NAKPRO ARC5

It is a rhombus shaped Talc which has a very low oil absorption levels, As compared to similar products which has more than 50 % particles below 1 micron levels. This has been achieved because of its unique particle structure, which we have engineered.



SEM MAG: 15.06 Kx 1 Microns Scale

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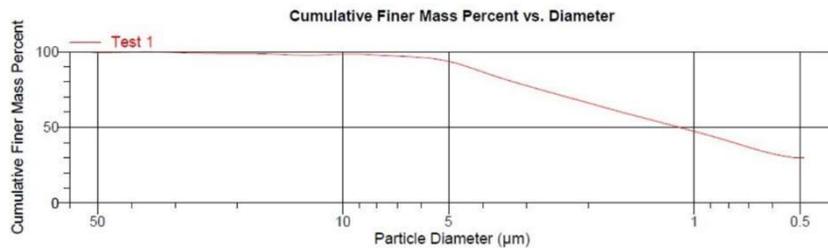
Physical Properties

Appearance	Free Flowing Dry Powder
Retention on 500#	NIL
Specific Gravity	2.70
Moisture	0.10 %
Bulk Density	0.40 +/- 3
Oil Absorption	40 +/- 3 ML
Refractive Index	1.57
LOI	< 5.0%
SiO ₂	50 - 63%
MgO	20 - 31%
CaO	5 - 1%
Al ₂ O ₃	10 - 0.5%
Fe ₂ O ₃	<0.1%

Particle Size Analysis

Combined Report
Report by Size Table

Low Diameter (µm)	Cumulative Mass Finer (Percent)	Low Diameter (µm)	Cumulative Mass Finer (Percent)	Low Diameter (µm)	Cumulative Mass Finer (Percent)	Low Diameter (µm)	Cumulative Mass Finer (Percent)
50.00	99.9	15.00	98.1	6.000	96.2	1.000	47.4
45.00	99.9	13.00	97.7	5.000	93.5	0.800	41.0
40.00	99.7	12.00	97.7	4.000	86.6	0.600	32.6
30.00	99.4	10.00	98.3	3.000	77.5	0.500	30.0
25.00	98.9	8.000	97.8	2.000	66.1		
20.00	98.7	7.000	97.0	1.500	58.2		



Sedigraph III V1.03

Stokes Sedimentation and Beer's Law

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NAKPRO ARC5

Technical Information

Physical Appearance	Free Flowing White Powder
Microscopic Structure	Crystalline, granular, stalactitic, concretionary, massive, rhombohedral.
Tenacity	Trigonal
Streak	White
Optical Properties	Biaxal

Usage

Nakpro is a versatile product which can be used by Polymer Compounding Industry, Cosmetic Industry as well as Paint and Coating Industry.

Benefits of Using NAKPRO

Better Dispersion Rate – As NAKPRO particles are rhombus in shape, they incorporate themselves faster in the compound / formulation. This saves time as the dispersion rate is faster than normal 10 micron Talc.

UV Stabilizer – NAKPRO has an excellent UV absorption rates which makes it a very good UV Stabilizer. Secondly it is a natural mineral, which makes it ideal to replace the Heavy Metal compounds which are being used as UV Stabilizer.

Works as Anti Settling Agent – NAKPRO has more than 47% particles under the range of 1 Microns and more than 30% particles are below 0.5 Microns, these high concentration of Nano Particles helps in keeping the pigment suspended in the formulation.

Dirt Pickup Resistance – As the presence of Nano Particles are high in NAKPRO, its particles has very low surface energy. Hence after the application or compounding its particles usually occupy the outer layer. Since its shape is uniform the surface of the product also has an even texture. This smooth surface does not allow dirt to settle on to its surface.

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