PRECIPITATED CALCIUM CARBONATE

KC-2, KC-5 & KC-11

TECHINCAL DATA SHEET

Description:

Precipitated Calcium Carbonate (PCC) is an innovative product derived from lime stone, which has many industrial applications. PCC is made by hydrating high- calcium quick lime and then reacting the resulting lime slurry with carbon dioxide. The resulting product is extremely white and typical has a uniform narrow particle size distribution. PCC is available in numerous crystal morphologies and sizes, which can be tailored to optimize performance in a specified application.

Application:

Precipitated Calcium Carbonate is used in **Food Industry** such as a Chewing gums, Noodles, Biscuits, Bread & Nutrition. Precipitated Calcium Carbonate is used as food additives and calcium supplements which is helpful for the growth of body as well as strong bones. It has Calcite and Aragonite structure with different particle size distribution and apparent densities.

Properties:

Application	Nutrition Supplement	Biscuits	Chewing Gums, Noodles & Bread
Grade Recommended	**KC – 2**	**KC-5**	**KC-11**
Bulk Density gm/ml (Tapped)	0.46 - 0.51	0.70 - 0.85	0.45 - 0.50
Loss on Drying (105*C in 1 hr)	1.0 Max	0.5 Max	1.0 Max
Specific Surface Diameter (micron)	0.11	1.4	0.11
Average Particle Size D50	5 – 7	7 – 9	4 - 6
Flow Point (ml/15 gm)	24 – 27	12 – 16	25 - 28
Fineness % (through 45 micron)	99.70	99.70	99.70
DOP Absorption (gm/100gm)	60 – 75	24 - 32	65 - 80
Purity as $CaCO_3$ % (min.)	98	98	98
Crystalline Habit	Semi - Calcite	Aragonite	Calcite
Microbiological Properties A) Total Bacterial Count, cfu/gm B) Yeasts & Mold Count, cfu/gm	 100 Max 10 Max	 100 Max 10 Max	 100 Max 10 Max