

KUNAL CALCIUM LIMITED

PRECIPITATED CALCIUM CARBONATE

PRODUCT SPECIFICATIONS

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 as a filler and surface coating agent for premium quality paper products in **Paper Industry**. It enhances brightness, smoothness and improves opacity. PCC improves paper machine productivity and can reduce paper making costs through the replacement of more expensive pulp fiber and optical brightening agents. It has Calcite and Semi – Calcite structure with different particle size distribution and apparent densities.

Properties:

Application	Office Paper	Cigarette & Tissue Paper
Grade Recommended	KC - 2	KC - 11
Bulk Density gm/ml (Tapped)	0.46 - 0.51	0.45 - 0.50
Loss on Drying (105°C in 1 hr)	1.0 Max	1.0 Max
Specific Surface Diameter (micron)	0.11	0.11
Average Particle Size D50	5-7	4 - 6
Flow Point (ml/15 gm)	24 - 27	25 - 28
Fineness % (through 45 micron)	99.70	99.70
DOP Absorption (gm/100gm)	60 - 75	65 - 80
Purity as CaCO ₃ % (min.)	98	98
Crystalline Habit	Semi-Calcite	Calcite