

CALCIUM CARBONATE FCC

GENERAL DESCRIPTION:

Precipitated Calcium Carbonate (PCC) is one product in a family of ultrafine calcium carbonates that have been developed for use in sealants, adhesives, plastics, rubber, inks and other high performance applications. Specialty Minerals ultrafine PCC products range from .07 to .15 microns in average particle size. This product is treated using fatty acid chemistry to improve dispersibility and compatibility in polymers and elastomers.

Specialty Minerals manufactures PCC using stringent quality assurance procedures and good manufacturing practices

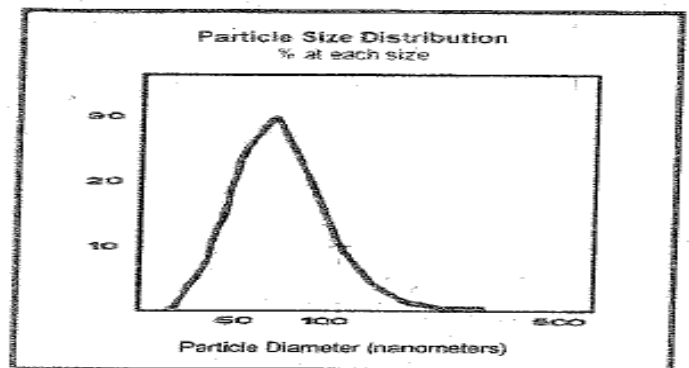
APPLICATIONS:

The high surface area and rheological structure building ability of PCC makes it a versatile function filler in many different applications. Its hydrophilic nature makes it particularly suitable for water-based products, but it is also compatible with many polymers and organic solvents.

*** In Brewing applications, Calcium Carbonate may be used as a salt for water adjustment for the purpose of raising pH. Calcium Carbonate is most effective when added directly to the mash due to its limited solubility. It may also be used for making darker beers in areas of soft water. ***

Typical Physical Properties	
Crystal habit	Calcite
Particle Shape.....	Rhombic
Particle Size, microns	0.07
Surface Area, meters ² /gram	19
Oil Absorption, grams oil/100 grams.....	26
Tapped Density, grams/cc	0.43
pounds/ft ³	26.9
Bulk Density, grams/cc	0.17
pounds/ft ³	10.7
Specific Gravity	2.71
Moisture, % loss at 200° C.....	0.7
Residue, 325 mesh screen, %	0.01
Dry Brightness, Minolta -L	99
Solubility, in water, pH 7	Insoluble
in acid	Soluble
in organic solvents	Insoluble

Note:
These are typical values, and should not be used to set specifications.



Rheology in 20% DINP Paste	
Contraves RM-285 Concentric Cylinder Rheometer DIN 108 Geometry	
Apparent Viscosity at 228 s ⁻¹ , Pa·s	0.93
Yield, Pa93
Bingham viscosity, Pa·s	0.57