



Technical Data Sheets

CALCITE

Description: Application, Benefits & Compliance:

Calcite is finely Ground Limestone naturally occurring Carbonate Mineral with the most stable Polymorph of Calcium Carbonate (CaCO₃) in Various ASTM Mesh Grades **6x12, 8x20 & 12x30**

Terminologies:

pH Enhancer, Sweetening Ingredient, Mineral supplement etc.,

What is the Need of Calcite in Drinking Water & Water treatment?(RO Process & pH Drop)

- Post RO Filtration, Permeate (Product water) contains Low pH due to the removal of Dissolved solids.
- Permeate Contains the CO₂ which is one of the reasons for Low pH.
- Water with low pH levels is not only corrosive and metallic, it can also leave a blue or green stain on drains, sinks, and more, due to its breaking down of metal (copper) fixtures in your plumbing system.
- Water with pH level between 6 and 8.5 is safe to drink because it's neither acidic nor alkaline enough to be dangerous in the human body. Water with pH less than 6 can be corrosive and filled with toxic metals.

Calcite Working Principle, Applications & Claims :

- Post RO, Calcite reacts with Permeate & enhance the pH of the water to meet the Drinking water Specifications as per World Health Organization(WHO)
- Upon contact with calcite, acidic waters slowly dissolve the calcium carbonate to raise the pH which reduces potential leaching of copper, lead and other metals found in typical plumbing systems.

SECTION 1 - Chemical Analysis

Chemical Analysis	Chemical Formula	Typical Content %
Calcium Carbonate	as CaCO ₃	99.77
Magnesium	as MgO	0.20
Iron	as Fe ₂ O ₃	0.03

SECTION 2 - Physical Properties

Shape	Semi- angular
Colour	Off-white
Bulk Density	1.3 g/cc
Hardness	3 moh
Solubility	Low
Packaging	50 kg drum

SPECIFICATIONS	TEST METHOD	CALCITE
Mesh Grade	ASTM D 2862	6X12, 8X20 & 12X30
Bulk Density	ASTM D 2854	1.31 g/cc
Ball - Pan Hardness	ASTM D 3802	min 90 %
Moh's Hardness	Moh Scale	3
Moisture %	ASTM D 2867	max 5

Packaging

Please Contact Ecogreen Cleantech for options and availability.

Design Consideration

To Optimize and fulfill your needs up to your expectations, Please contact ecogreen@carbons.in