

Precipitated Calcium Carbonate Nanoparticles NPCC

Description:

Calcium Carbonate is one of the most widely used raw materials in the world, and new applications are constantly being developed. This mineral, with the chemical formula CaCO_3 , is seen either as a white powder or as colorless crystals. Calcium carbonate is the main component of important industrial stones, including limestone, marble, travertine, and gypsum, and the main sources of extraction of this material are these stones. According to the production method, there are two types of calcium carbonate: GCC and PCC. Ground calcium carbonate (GCC) is generally produced by mechanical methods; however, precipitated calcium carbonate (PCC) is produced by chemical methods.

Characterization	
CAS	471-34-1
Stock No.	NPCC2001 NPCC2021
Molecular formula	CaCO_3
Molecular weight (g/mol)	100.07
Form	Powder / Suspension
Color	White
Morphology	Spherical
Crystal structure	Calcite
Size range (nm)	30-50
Total impurity (%)	<0.5
Density (g/cm ³)	2.78 (Calcite)
Solubility	Insoluble

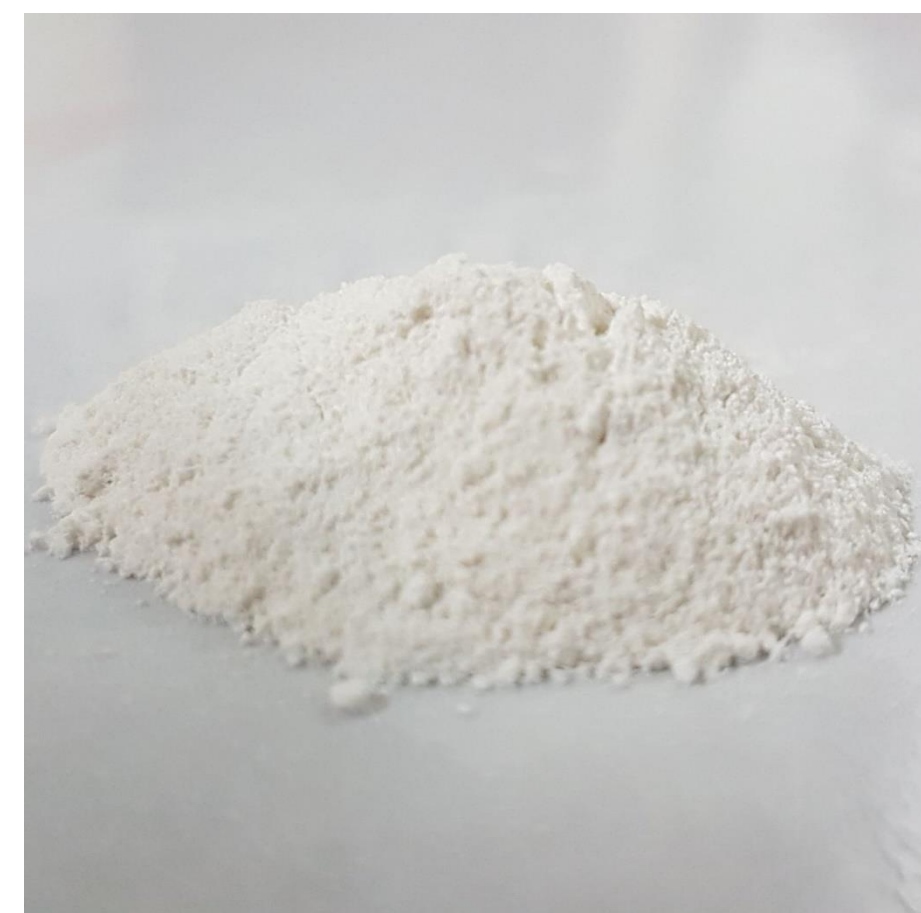


Image of Precipitated Calcium Carbonate nanopowder (NPCC2001)

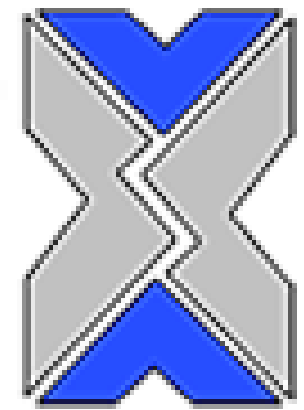
Note: product specifications are subject to amendment and may change over time.

Applications (but not limited to the following):

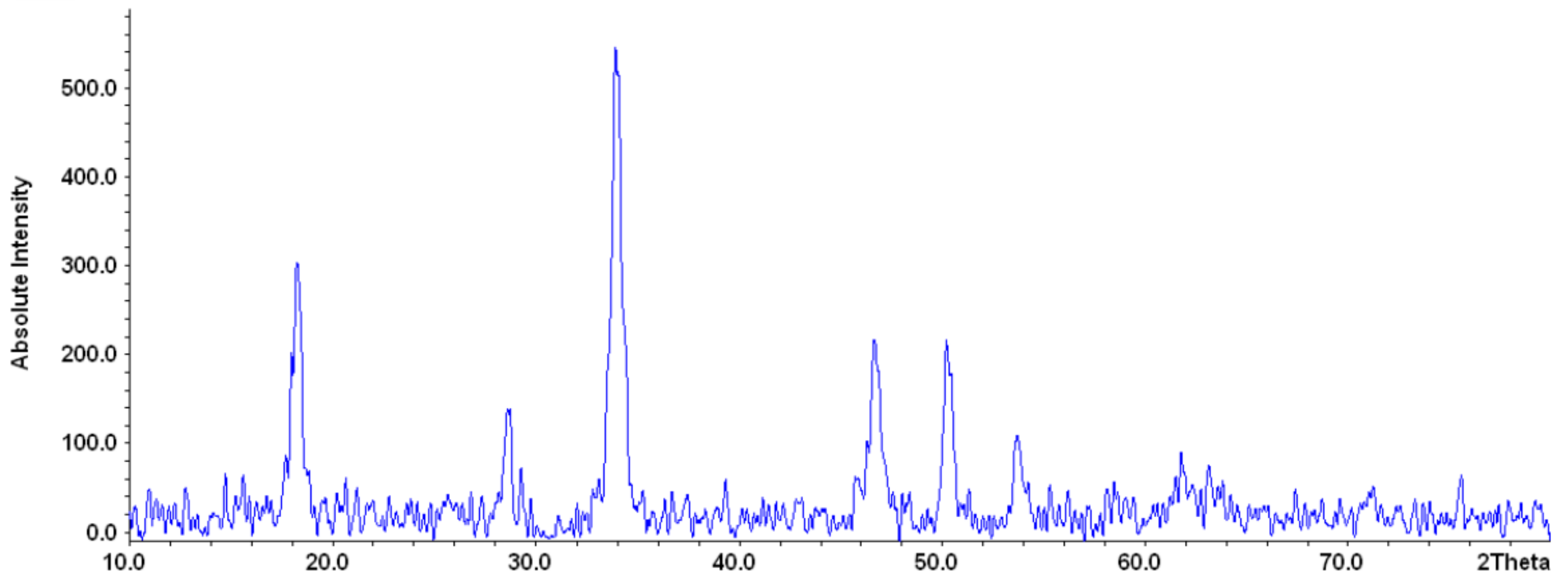
Pigments for paints and cosmetics, fillers, catalyst supports, dye-sensitized solar cells.

Safety:

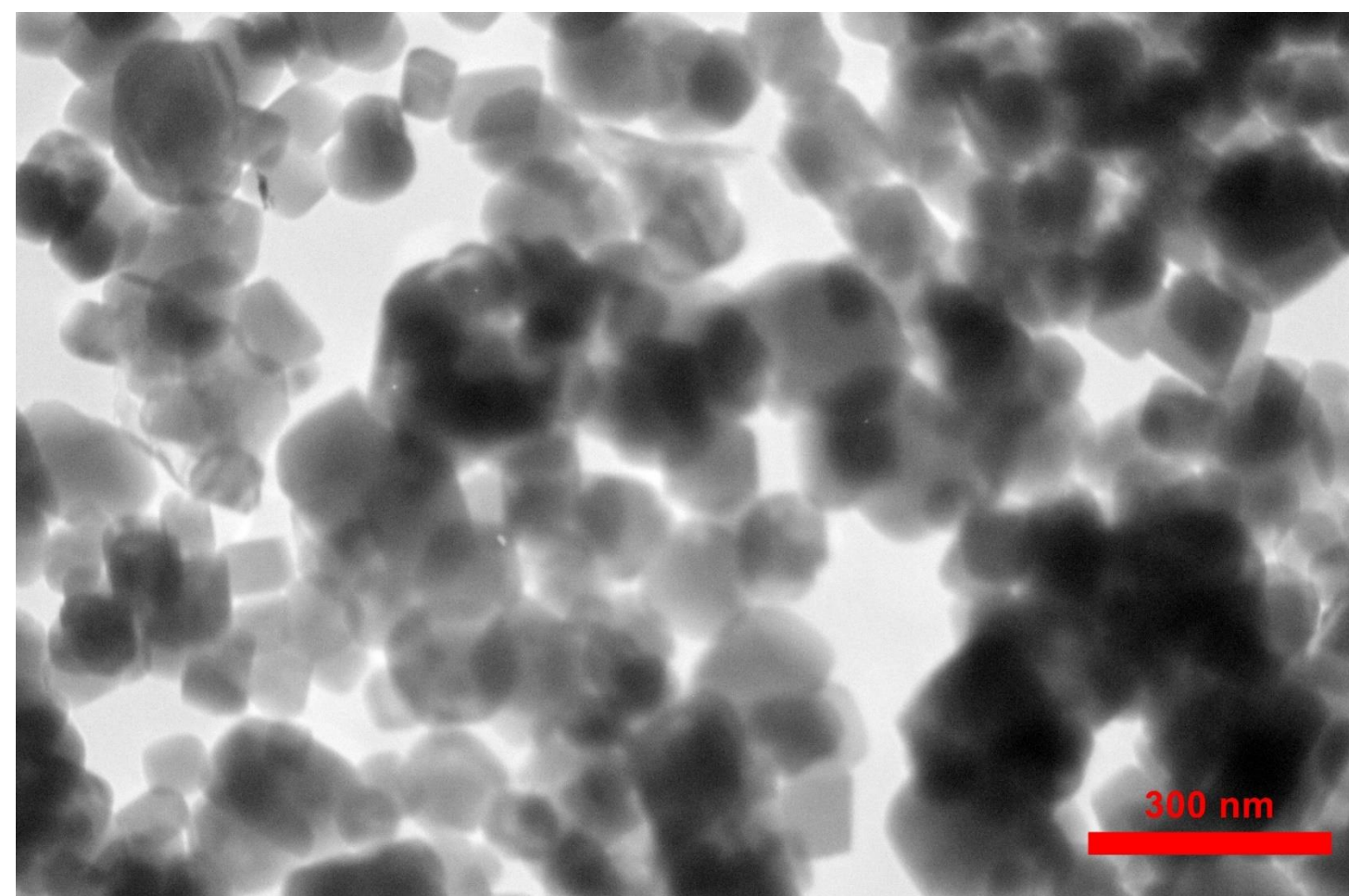
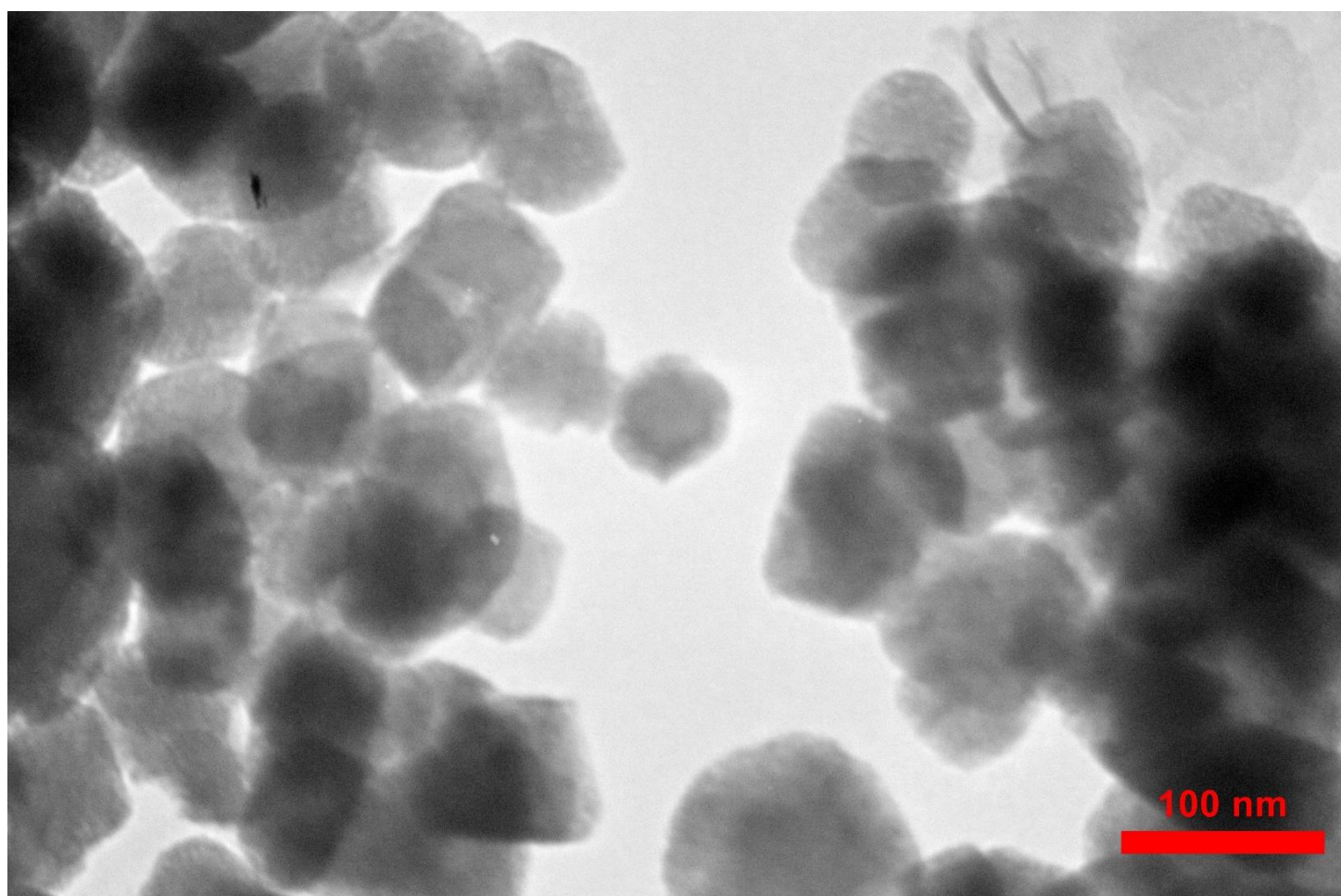
Avoid breathing dust.
Always use protective gloves and safety glasses.
Wash with soap and water after exposure.
Refer to MSDS prior to handling this material.



Titanium Dioxide Nanoparticles TNP6



XRD pattern of NPCc2001 (Calcite)



TEM image of NPCC2001

Storage:

- Keep it in cool dry place.
- Avoid direct sunlight.
- Do not freeze.
- To disperse powder use sonication.

Shelf life:

When stored as specified the product is stable for at least 12 months.