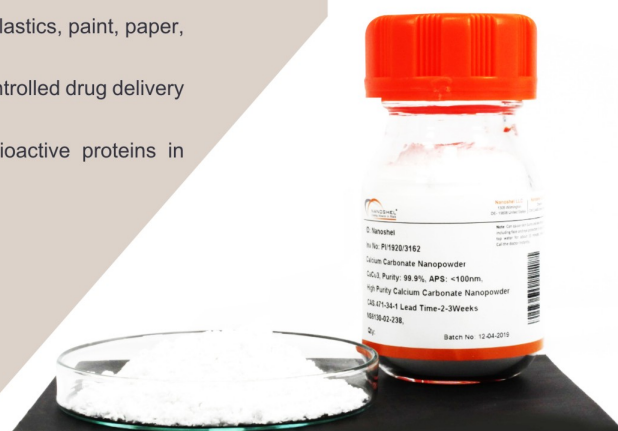


Calcium

Carbonate Nanoparticles

Inorganic nanoparticles for biomedical applications have undergone extensive investigations in recent years. calcium carbonate (CaCO_3) nanoparticles show unique advantages due to their ideal biocompatibility and the potential as delivery system for loading different categories of drugs.

CaCO_3 is one of the most common inorganic materials that has been used as a viscosity modifier in many industrial areas such as; rubber, plastics, paint, paper, inks and food. CaCO_3 nanoparticles, it has been used for controlled drug delivery and encapsulation of different kinds of drugs such as bioactive proteins in pharmaceuticals.



Quick FACTS

- ✓ Product :Calcium Carbonate Nanoparticles
- ✓ Stock No :NS6130-02-238
- ✓ CAS:471-34-1
- ✓ Color:white
- ✓ Form:Powder



CE ISO 9001:2015
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ISO: 13485:2016/20ZICE4588M
CE: 20ZICE4589C



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Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
CaCO ₃	100.08g/mol	2.7g/cm ³	825°C

Properties

- ✓ Unique biocompatible
- ✓ pH-sensitive
- ✓ Low cost
- ✓ Thermodynamic stability
- ✓ Sccessibility
- ✓ Antimicrobial
- ✓ Nontoxic

Applications

- ✓ Plastics, paint, paper, inks, food
- ✓ Industrial Coatings
- as well as pharmaceutical industries.
- ✓ Gene delivery nanocarrier
- ✓ Drug delivery carrier
- ✓ Therapeutic applications
- ✓ Used in the delivery of hydrophilic protein drugs

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