

Microcrystalline Hydroxyapatite

White crystalline powder calcium compound

Product Description

Microcrystalline hydroxyapatite used in bone grafts, dental products, and calcium supplements.

Certificate of Analysis

HSN Code: 2836.60 CAS Number: 1306-06-5 Classification: Non-hazardous

Parameter	Specification	Test Method
Appearance	White to off-white fine powder	Visual
Assay (Ca • 6 (PO ₄) ³⁻ (OH) ⁻ , content)	Min 95% (dry basis)	XRD / ICP-OES
Calcium (Ca) Content	38 – 41%	ICP-OES
Phosphorus (P) Content	17 – 19%	ICP-OES
Ca/P Molar Ratio	1.67 ± 0.05	Calculated from assay
Moisture Content	Max 1.0%	Loss on Drying (105°C)
pH (1% suspension)	6.5 – 8.0	pH Meter
Particle Size (D50)	1 – 5 ¼ m	Laser Diffraction
Specific Surface Area	50 – 80 m²/g	BET Method
Heavy Metals (Pb, Cd, Hg)	Below detection limits	ICP-MS

Physical Properties

Appearance: White to off-white fine powder

Solubility: Information not provided in source

Packing: 25 kg multi-wall paper bags with polyethylene liner, Bulk packaging available upon request

Storage: Store in a cool, dry, and well-ventilated area. Protect from moisture and contamination. Keep containers sealed when not in use.

Safety & Handling

PPE: Dust mask

Hazards:

- Respiratory irritation (dust)