

Product Data Sheet

Nano Hydroxyapatite (Nano-HAP)

Description

Description	Nano Hydroxyapatite is a nano-scale calcium phosphate compound structurally similar to the mineral component of tooth enamel and bone. Supplied as a raw material ingredient for dental remineralization formulations, bone-graft research materials, and cosmetic preparations.
Recommended Use	Raw material ingredient for dental/cosmetic formulation and bone-graft material research
Restrictions on Use	Supplied as a raw material only; finished-product formulation, clinical, and regulatory clearance is the responsibility of the buyer/formulator

Key Benefits

- Chemically similar to natural tooth enamel mineral (biomimetic)
- Nano-scale particle size supports formulation into remineralization products
- Stable, consistent Ca/P stoichiometric ratio batch to batch

Technical Specifications

Parameter	Unit	Specification	Test Method
Ca ₁₀ (PO ₄) ₆ (OH) ₂ Purity	%	≥ 95	XRD / FTIR
Ca/P Molar Ratio	—	≈ 1.67 (stoichiometric)	ICP-OES
Particle Size	nm	20 – 80 (typical)	TEM / DLS
Appearance	—	White powder	Visual
Crystallinity	—	Nanocrystalline	XRD

Regulatory Note

Supplied as a raw material ingredient. Not a finished dental, medical, or cosmetic product. Buyers are responsible for their own formulation testing and regulatory clearance for the intended end-use market.

Packaging

Packaging	25 kg paper/PP bags; smaller lab-quantity packs available on request
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Storage & Handling

- Store in a dry, sealed container away from moisture
- Avoid contamination; use clean, dry handling equipment

Disclaimer: Provided as a general guide, subject to revision; buyers should confirm suitability through their own testing and regulatory review for their destination market.