

CERAMAT

Technical Data Sheet

Product Name: Ceramat Consumer Grade Nano HAp

Mol. Formula: $[\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2]$

Mol. Weight: 1004.62 g/mol

CAS No.: 12167-74-7 /1306-06-5

Sr. No.	Tests	Test Methods/Reference	Specifications
1.	Phase Analysis	XRD	Conforms with ICDD file no. 09-0432
2.	Appearance	Visual Inspection	Milky white with no other-coloured impurity.
3.	Particle size	Particle Size Analyzer	D10: 5 μm ($\pm 2 \mu\text{m}$) D50: 17 μm ($\pm 5 \mu\text{m}$) D90: 52 μm ($\pm 10 \mu\text{m}$)
4.	Crystallite Size	XRD (Debye Scherrer)	10 to 50 nm
5.	Bulk Density	Manually (Mass/Volume)	0.1 to 0.6 gm/cc
6.	Calcium as Ca	ICP	34 to 41 %
7.	Heavy Metal Content	ICP	As ≤ 3 ppm Cd ≤ 5 ppm Hg ≤ 5 ppm Pb ≤ 30 ppm