

CERAMAT

Technical Data Sheet

Product Name: Phase Pure Hydroxyapatite

Mol. Formula: [Ca₅(PO₄)₃OH]

Mol. Weight: 502.4 gm/mol

CAS No.: 12167-74-7

Sl. No.	Tests	Tests methods	Specifications
1.	Phase Analysis	XRD	Conforms with ICDD file no. 09-0432
2.	Appearance	Visual	Pure white Powder
3.	Ca/P ratio	ICP-MS/AES/OES	1.663 ≤ Ca/P ≤ 1.714
4.	Trace elements	ICP-MS/AES/OES	As ≤ 3 ppm Cd ≤ 5 ppm Hg ≤ 5 ppm Pb ≤ 30 ppm
5.	Particle Size	Particle size analyser	<75µm
6.	Crystallite Size	XRD Debye- Scherrer	15-40 nm
7.	Heavy metals	ICP-MS	Total heavy metals ≤ 30 ppm
8.	Other elements	ICP-MS	Fe ≤ 100 ppm
9.	Bulk Density	Manually (Mass/Volume)	0.2 to 0.8 gm/cc

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