

CERAMAT

Technical Data Sheet

Product Name: Thermal Spray Grade 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 And Rietveld Refinement	Major Phase: Hydroxyapatite CaO ≤ 1%
2.	Appearance	Visually	Pure White Powder
3.	Ca/P ratio	XRD and ICP-MS/AES/OES	1.663 ≤ Ca/P ≤ 1.714
4.	Particle size	Sieve Analysis	45 to 200 μm
5.	Crystallinity ratio	XRD And Rietveld Refinement	Crystallinity > 85%
6.	Bulk Density	Manually (Mass/Volume)	0.5 to 1 gm/cc
7.	Trace elements	ICP-MS/AES/OES	As ≤ 3 ppm Cd ≤ 5 ppm Hg ≤ 5 ppm Pb ≤ 30 ppm
8.	Heavy metals	ICP-MS/AES/OES	Total heavy metals ≤ 30 ppm
9.	Other elements	ICP-MS/AES/OES	Fe ≤ 100 ppm
10	Flowability	Hausner ratio	≤1.2

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