

CERAMAT

Technical Data Sheet

Product Name: Thermal Spray Grade Hydroxyapatite

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

Mol. Weight: 1004.62 gm/mol

CAS No.: 12167-74-7

Sl. No.	Tests	Tests methods	Specifications
1.	Phase Analysis	XRD And Rietveld Refinement	Major Phase: Hydroxyapatite CaO \leq 1%
2.	Appearance	Visually	Milky white with no other-coloured impurity.
3.	Ca/P ratio	XRD and ICP-MS/AES/OES	$1.663 \leq \text{Ca/P} \leq 1.714$
4.	Particle size	Sieve Analysis	45 to 150 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 \leq 3 ppm Cd \leq 5 ppm Hg \leq 5 ppm Pb \leq 30 ppm
8.	Heavy metals	ICP-MS/AES/OES	Total heavy metals \leq 30 ppm
9.	Other elements	ICP-MS/AES/OES	Fe \leq 100 ppm
10.	Flowability	Hausner ratio	\leq 1.25

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