

# CERAMAT

## Technical Data Sheet

**Product Name: Ingredient Grade Synthetic Hydroxyapatite (>97% Pure)**

**Mol. Formula: [Ca<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>OH]**

**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.	Ca/P ratio	ICP-MS/AES/OES	$1.663 \leq \text{Ca/P} \leq 1.714$
3.	Trace elements	ICP-MS/AES/OES	As $\leq$ 3 ppm Cd $\leq$ 5 ppm Hg $\leq$ 5 ppm Pb $\leq$ 30 ppm
4.	Particle Size	Sieve Analysis	<75 $\mu\text{m}$
5.	Bulk Density	Manually (Mass/Volume)	0.2 to 0.8 gm/cc
6.	Crystallite Size	XRD (Debye Scherrer)	20 to 60 nm
7.	Heavy metals	ICP-MS/AES/OES	Total heavy metals $\leq$ 30 ppm
8.	Other elements	ICP-MS/AES/OES	Fe $\leq$ 100 ppm

Ceramat Private Limited (CIN: U26990MH2021PTC370837, GSTN: 27AAJCC8882E1Z9)

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