

Cerammat

Technical Data Sheet(TDS)

Product Name: Ceramat Ingredient Grade nHAp

Mol. Formula: [Ca₁₀(PO₄)₆(OH)₂]

Mol. Weight: 1004.62 gm/mol

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

Tests	Tests methods	Specifications
Phase Analysis	XRD (ICDD file no. 09-0432)	Phase Purity 100%
Appearance	Visually	Milky white powder.
Particle shape	TEM	Rod Shape
Aspect ratio	TEM	Not less than 95.8% <3, Not more than 4.2% between 3 to 4.9
Average particle size	TEM	<50 nm
Density	Manually (Mass/Volume)	0.1 to 0.4 gm/cc
Microbiological Characteristics		
Total Aerobic Microbial Count (TAMC)	USP	≤100 cfu/gm
Total Yeast and Mould count (TYMC)	USP	≤100 cfu/gm
Escherichia coli	USP	Absent/gm
Salmonella	USP	Absent/gm
Pseudomonas Aeruginosa	USP	Absent/gm
Staphylococcus Aureus	USP	Absent/gm
Candida albicans	USP	Absent/gm
Heavy Metal Analysis	ICP-OES	Total heavy metals ≤30 ppm

*As per ISO 13779-6:2018, phase purity of more than 95% is assured after drying and calcination at 1000°C for 15 hrs.

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