

## Technical Data Sheet

*beta- tricalcium phosphate powder manufactured by Ceramat Pvt. Ltd.*

**Product name:**  $\beta$ -tricalcium phosphate ( $\beta$ -TCP) powder

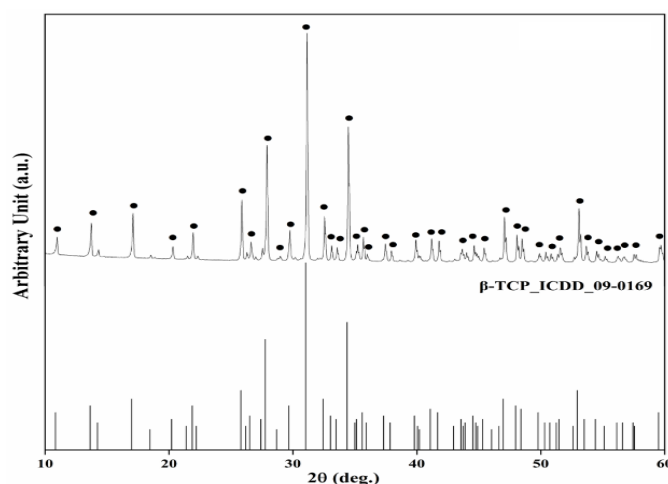
**Molecular formula:**  $\beta$ -Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>

**Molecular weight:** 310.18 g/mol

**CAS Number:** 7758-87-4

S.No.	Tests	Method	Specifications
1.	Phase Purity	X-ray diffraction	• $\beta$ -TCP $\geq$ 95 % Conforms with ICDD file no. 09-0169
2.	Additional Phase	X-ray diffraction	•HA + TTCP + $\alpha$ -TCP $\leq$ 5 % • $\beta$ -CPP $\leq$ 5 %
3.	Appearance	Visual	White powder
4.	Bulk density	Manual	0.2 to 0.8 g/cc
5.	Particle Size	Particle Size Analyser	D <sub>10</sub> $\leq$ 5 $\mu$ m D <sub>50</sub> $\leq$ 20 $\mu$ m D <sub>90</sub> $\leq$ 50 $\mu$ m *Particle size measured after 5 min sonication in water.
6.	Impurity	ICP-OES	Pb $\leq$ 30 ppm; Hg $\leq$ 5 ppm; Cd $\leq$ 5 ppm; As $\leq$ 3 ppm

### X- ray diffraction analysis



### Storage and Safety

Keep the container closed and store in a cool and dry place. Refer to MSDS for any additional information.

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

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