

SPECIFICATION

Apatite α -TCP, monoclinic for Vital Material Research

REQUIREMENT	SPECIFICATION
Appearance	White, powder or mass
Solubility in hydrochloric acid	to pass test
Loss on drying at 200°C	max.0.3%
Loss on ignition at 800°C	max.0.3%
Chloride (Cl)	max.0.002%
Sulfate (SO ₄)	max.0.005%
Heavy metals (as Pb)	max.5ppm
Magnesium (Mg)	max.0.005%
Manganese (Mn)	max.0.002%
Arsenic (As)	max.1ppm
Iron (Fe)	max.0.001%
Calcium oxide (CaO)	52~56%
Phosphorus(V) oxide (P ₂ O ₅)	43~48%
Molar ratio (CaO/P ₂ O ₅)	2.9~3.1