

## SPECIFICATION

Apatite HAP, monoclinic  
for Vital Material Research

REQUIREMENT	SPECIFICATION
Appearance	White powder
Solubility in hydrochloric acid	to pass test
Loss on drying at 200°C	max.5.0%
Loss on ignition	max.10.0%
Chloride (Cl)	max.0.002%
Sulfate (SO <sub>4</sub> )	max.0.005%
Heavy metals (as Pb)	max.5ppm
Magnesium (Mg)	max.0.005%
Arsenic (As)	max.1ppm
Manganese (Mn)	max.0.002%
Iron (Fe)	max.0.001%
Calcium oxide (CaO)	51.0~54.0%
Phosphorus(V) oxide (P <sub>2</sub> O <sub>5</sub> )	38.0~41.0%
Molar ratio (CaO/P <sub>2</sub> O <sub>5</sub> )	3.23~3.43