
Technical Data Sheet

Commercial name: ST-TCP

Chemical name: Tricalcium Phosphate

FORMULA: Ca₃(PO₄)₂

Molecular Weight: 310.18

Properties: White powder, odorless, tasteless, relative density 3.18, difficulty soluble in water, easily soluble in dilute hydrochloric, nitric acid, steady in the air.

General Specification

Name of index	Specifications FCC 9
Identifications Pass test	Pass test
Assay, as CaO, %	51-54
Arsenic	3ppm max.
Fluoride, %	0.005 max.
Lead	2ppm max.
Loss on Ignition, %	10.0 max.
Heavy Metals as Pb	10ppm max.
Bulk Density, g/ml	2.0-3.0
Mesh Size, pass 325 mesh, %	99.0 min.

Application:

TCP is a very efficient dispersing agent that is used to control outstanding homogeneity and constant particle size during the production of EPS.

A suspending agent(suspension agent, dispersant) that is added to controls polymer size during the suspension polymerization.

Field of TCP

Polymer suspension stabilized: During the suspension polymerization, TCP prevent decreasing interfacial tension between the droplets and the aqueous phase.

Artificial bone and tooth material: Consisted of Hydroxyapatite.

Calcium enhanced milk and beverage: Hydroxyapatite can supply calcium more than CaCO₃ and Ca(OH)₂

Animal feed: Livestock and domestic fowls

Ceramic: Raw material to the ceramic

Storage: In a cool, dry, well-ventilated area away from incompatible materials.

Packing: 25kg net paper bags

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