

# DET 10

## Description

DOOBON DET 10(TCP) is a very efficient dispersing agent that are used to control outstanding homogeneity and constant particle size during the production of EPS.

And also, it has several applications. For example, calcium enhanced beverages, artificial bone , tooth material and animal feed.

### Structure

$\text{Ca}_5(\text{PO}_4)_3\text{OH}$

### Appearance

Fine, white powder

## Specifications

<b>CaO</b>	%	51 ~ 54
<b>P<sub>2</sub>O<sub>5</sub></b>	%	40 ~ 42
<b>Moisture</b>	%	Max 3.0
<b>Particle Size (thru/400mesh)</b>	%	Min 99.0
<b>pH(10% slurry)</b>	-	6.5 ~7.5
<b>Acid Insolubles</b>	%	Max 0.1
<b>Loss on Ignition</b>	%	Max 0.4

## Handling

**Packaging** Paper Bags, PE inner liner, 10 or 20 kg net  
**Storage** Cool, Dry and well ventilated area at room temperature

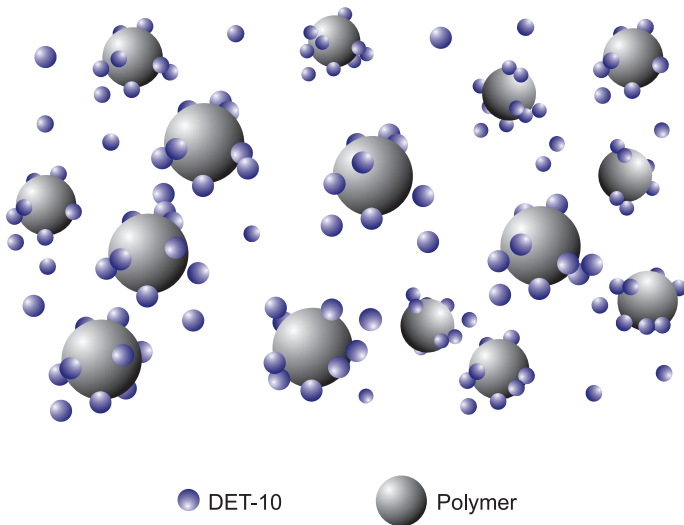
\* For additional handling and toxicological information, consult the DOOBON Material Safety Data Sheet.

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## What is a DET 10?

### ↔ Role of DET-10 in suspension polymerization



### The function of DET 10 is

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

In case of diblock polymer, DET 10 decrease interfacial tension between the droplets and the aqueous phase.

### ↔ Field of DET 10

#### Polymer suspension stabilizer

During the suspension polymerization DET-10 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  $\text{CaCO}_3$  and  $\text{Ca(OH)}_2$

#### Animal feed

Livestock and domestic fowls.

#### Ceramic

Raw material to ceramic.

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