



**PRODUCT INFO
& DATASHEET**

CALCIUM PHOSPHITE $\text{CaHPO}_3 \cdot 1.5\text{H}_2\text{O}$

*white powder, min. 43.5% P_2O_5 ,
a slow release fertiliser and a source of phosphorus*

1. INTRODUCTION

Calcium phosphite is a coproduct of sodium hypophosphite and a source of phosphorus commonly used in a fertiliser or pesticide. It has superior properties for these uses than phosphate.

Calcium phosphite, CaHPO_3 is obtained during the production of sodium hypophosphite. After a first stage where lime, caustic soda and elemental phosphorus are mixed, the calcium phosphite is separated from sodium hypophosphite through filtration, and then dehydrated.

Subject to the same **quality control** as its co-product, our calcium phosphite is **extremely pure**, and highly concentrated in phosphorus. The **phosphite content** is minimum **90%**, amounting to a P_2O_5 equivalent of ~45%. The product comes in the form of white powder, conditioned in 900 kg big bags.

Calcium phosphite is a **source of phosphorus** commonly used in the field of fertilisers, for example for green turf for golf. The product is also used as a slow release fertiliser or as a fungicide. The advantage of calcium phosphite is that it is nearly **inert**. It distills low and constant doses of phosphate to the plants, thus requiring **30 to 50% less phosphite** than phosphate to obtain similar yields. Since its integration into the ecosystem is slower and the quantities released are lower than with a phosphate treatment, the **level of phosphate** released into the waterways is **extremely low**.

2. PRODUCT SPECIFICATIONS & CHEMICAL % ANALYSIS

	<u>Standard specifications</u>	<u>Analysis results</u>
* Assay as Phosphite Ca ($\text{CaHPO}_3 \cdot 1.5\text{H}_2\text{O}$)	min. 90.0	91.7
Assay as (P_2O_5)	min. 43.5	44.3
Free Hydroxide Ca ($\text{Ca}(\text{OH})_2$)		<10
Iron (Fe)		<0.1
Heavy metals (as Pb)		<10 ppm
* <u>Typical properties</u>		
Density at 20° C		0.600
pH in solution (10%)		12-13

3. PACKING

in 900 kg big bags on pallets CP3 (114x114 cm), 20 kg square big bags (with 4 loops on pallet) = 18 MT per 20ft container or 22 pallets = 19.80 MT/truck