

# PCHA50

<b>Formula:</b> $\text{Ca}_3(\text{PO}_4)_2$ <b>Product:</b> Tricalcium Phosphate (TCP) Food Grade <b>Other names:</b> Precipitated Calcium Phosphate- $\text{Ca}_5\text{OH}(\text{PO}_4)_3$ Calcium Hydroxyapatite- $\text{Ca}_{10}(\text{OH})_2(\text{PO}_4)_6$ <b>INS:</b> E341iii <b>IUPAC:</b> Tricalcium bis (phosphate) <b>MW:</b> 310.18 g/mol <b>CAS#:</b> [7758-87-4] [1306-06-5]; [62974-97-4] <b>Appearance:</b> White, amorphous powder <b>Taste:</b> Tasteless <b>Odor:</b> Odorless <b>Solubility:</b> Almost insoluble in water Insoluble in alcohol <b>Shelf Life:</b> 3 Years <b>Storage:</b> Store in cool dry place.	<b>PCHA50</b>	
	Typical <b>Particle Size:</b> 50.0 $\mu\text{m}$ <b>Packed Density:</b> 27lb/ft <sup>3</sup> <b>D98 less than:</b> 50.0 $\mu\text{m}$ <b>D90 less than:</b> 25.0 $\mu\text{m}$ <b>D50 less than:</b> 7.5 $\mu\text{m}$	

Chemical/Physical Parameters			ADDITIONAL PARAMETERS	
<b>Analysis</b>	<b>Specification</b>	<b>Typical</b>	Bovine Constituents	None
<b>Assay Ca</b>	34.0-40.0 %	38.0 %	Recombinant DNA	None
<b>Arsenic</b>	<3.0 ppm	<1.0 ppm	Hormones/Antibiotics	None
<b>Fluoride</b>	<75.0 ppm	<50.0 ppm	Insecticides	None
<b>Lead</b>	<2.0 ppm	<0.5 ppm	GMO's	None
<b>Loss on ignition</b>	<10.0 %	5.0 %	Artificial Colors	None
<b>pH</b>	6.0-7.5	7.0	Irradiation/Radioactivity	None
<b>Density (ASG)</b>	0.408-0.513	0.455	<b>NUTRITIONAL VALUES</b>	
<b>D50:</b>	5.5- 7.5 $\mu\text{m}$	6.0 $\mu\text{m}$	Fat	None
<b>D90:</b>	22.0-25.0 $\mu\text{m}$	23.0 $\mu\text{m}$	Calories	None
<b>D98:</b>	< 50.0 $\mu\text{m}$	49.5 $\mu\text{m}$	Protein	None
			Vitamins	None
			Carbohydrates	None
			Calcium	34—40%
			Phosphates	55.2—57.2%

Complies with the latest Food Chemical Codex (FCC).

**Main uses:** Flow agent, anti-caking agent, calcium/phosphorus fortification. \*Refer to NEI Application Sheet for additional uses.

**Certifications/Registers:** Halal, Kosher, FDA, SQF Certified Facility.

**Vegetarians:** NEI's TCP is well suited for vegetarians and vegan diets.

**Raw Materials:** NEI uses domestically sourced raw materials low in heavy metals to ensure production of high-quality food grade TCP.

**HACCP:** HACCP practices are followed throughout the manufacturing process to ensure compliance with Good Manufacturing Practices (GMP) Guidelines.

**Product Usage Guideline:** The product is Generally Recognized as Safe (GRAS) when used in conjunction with GMPs.

Natural Enrichment Industries  
 1801 W. Oak Street Herrin, IL 62948  
 Ph: 618-942-2112  
[www.neitcp.com](http://www.neitcp.com)  
[sales@neitcp.com](mailto:sales@neitcp.com)  
 8/10/2023 TO/JHM

