

nanoXIM•FoodPowder is a synthetic hydroxyapatite powder, manufactured and supplied by FLUIDINOVA, S.A.

PRODUCT IDENTIFICATION

Trade name	nanoXIM•FoodPowder
SKU	505202
IUPAC name	Pentacalcium hydroxide triphosphate
CAS number	12167-74-7
EC number	235-330-6
Synonyms	Hydroxyapatite (CAS No.1306-06-5)
Chemical formula	$\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$
REACH ID number	01-2119490075-38-0021
Grade	Food grade
E number(s)	E341 (iii)



PRODUCT INFORMATION

	Unit	Specifications
Assay (calculated on the ignited basis)	wt% ≥	90
Loss on ignition (at 800°C±25°C for 0,5 h)	wt% ≤	8
Salts (K ⁺ ; Cl ⁻ ; Ca ²⁺)	wt% ≤	3
Particle size ≤100 μm	% ≥	95
P ₂ O ₅ (on the anhydrous basis)	wt%	38,5 - 48,0
Fluoride (expressed as fluoride)	ppm ≤	50
Total heavy metals (as Pb)	ppm ≤	20
Arsenic	ppm ≤	1
Cadmium	ppm ≤	1
Lead	ppm ≤	1
Mercury	ppm ≤	1
Aluminium	ppm ≤	150

GENERAL PROPERTIES

Bulk density	0,55 ± 0,20 g/cm ³
Particle type	Microparticles
Physical appearance	Spray dryer white and odourless powder
Solubility	Practically insoluble in water; insoluble in ethanol, soluble in dilute hydrochloric and nitric acid

GENERAL INFORMATION

nanoXIM•FoodPowder is a white powder of hydroxyapatite micrometric particles suited for food products that cannot incorporate aqueous ingredients. Calcium phosphates are widely used to promote bone strength and health in dietary supplements, such as dietary pills and capsules. As human bone contains up to 70% of hydroxyapatite, this calcium phosphate is extremely interesting for these applications. nanoXIM•FoodPowder meets the requirements of current European Community regulations for Food additives, EC 231/2012 [E341(iii)].

Package

Available in PE or PP food grade containers at different sizes.

Storage, Safety and Handling

To ensure the quality of the product, keep it in a closed container at room temperature in a clean and dry place. For more details about product safety and handling information, please see the product Safety Data Sheet (SDS). Shake before use to ensure homogeneity.