Technical Data Sheet

nanoXIM•FoodPaste is a synthetic nano-hydroxyapatite aqueous suspension, manufactured and supplied by FLUIDINOVA, S.A.

PRODUCT IDENTIFICATION

Trade name	nanoXIM•FoodPaste
SKU	505102
IUPAC name	Pentacalcium hydroxide triphosphate
CAS number	12167-74-7
EC number	235-330-6
Synonyms	Hydroxyapatite (CAS No.1306-06-5)
Chemical formula	$Ca_{10} (PO_4)_6 (OH)_2$
REACH ID number	01-2119490075-38-0021

PRODUCT INFORMATION

	Unit	Specifications
Solids	wt%	20,0 ± 1,0
Hydroxyapatite, $Ca_{10} (PO_4)_6 (OH)_2$	wt%	15,5 ± 0,5
Potassium Chloride, KCl	wt%	4,5 ± 0,5
Water, H_2O	wt%	80,0 ± 1,0
pH @ 25ºC		10,0 ± 0,5
Total heavy metals (as Pb)	ppm	≤ 20
Total Aerobic Mesophilic Microorganisms (bacteria, yeast & mold)	cfu/g	≤ 100

GENERAL PROPERTIES	Unit	Value
Density	g/cm³	1,13 ± 0,02
Particle size	nm	< 50
Shelf life	years	3
Physical appearance		White aqueous suspension

GENERAL INFORMATION

nanoXIM•FoodPaste is a synthetic nano-hydroxyapatite water based paste ingredient suitable to be incorporated in food products such as calcium-fortified beverages and chewing-gums.

Calcium phosphates have been widely used to promote bone strength and health in dietary supplements and fortified drinks. Nano-hydroxyapatite is especially suited for these applications as it accounts for up to 70% of human bone and 97% of teeth enamel.

Functional chewing-gums with nano-hydroxyapatite are suited for teeth enamel repair, effectively reducing dental hypersensitivity.

nanoXIM•FoodPaste is easy to incorporate in existing formulations, both for bone fortification and dental care.

Package

Available in 20 kg HDPE food-grade containers. Other options may be available upon request.

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. Do not freeze.
For more details about product safety and handling information, please see the product Safety Data Sheet (SDS).
Container should be stirred before every use to homogenise the product.

FLUIDINOVA
THE NANO-HYDROXYAPATITE SPECIALIST