

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

## PRODUCT IDENTIFICATION

Trade name	nanoXIM•CarePaste
SKU	504102
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



## PRODUCT INFORMATION

	Unit	Specifications
Solids	wt%	20,0 ± 1,0
Hydroxyapatite, $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$	wt%	15,5 ± 0,5
Potassium Chloride, KCl	wt%	4,5 ± 0,5
Water, $\text{H}_2\text{O}$	wt%	80,0 ± 1,0
pH @ 25°C		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/cm <sup>3</sup>	1,13 ± 0,02
Particle size	nm	< 50
Shelf life	years	2
Physical appearance		White aqueous suspension

## GENERAL INFORMATION

nanoXIM•CarePaste is an ingredient mainly used in oral care, cosmetic and food products.

The main applications of this product are toothpastes, mouthwashes, chewing gums and creams, with typical incorporation rates between 3 wt% and 15 wt%. No incorporation limits are defined and values up to 90 wt% are being used successfully in professional dental products.

nanoXIM•CarePaste can be easily incorporated in water-based products, simply by replacing part of the water in the formulation.

In emulsion-type products it should be added after emulsion formation, during cooling-process with continuous mixing.

### 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.