

PRODUCT INFORMATION

nanoXIM•HAp100 is a series of synthetic nano-hydroxyapatite aqueous pastes, manufactured and supplied in 2 different concentrations by FLUIDINOVA S.A.

General specifications

Phase purity, Ca ₁₀ (PO ₄) ₆ (OH) ₂ , % ⁽¹⁾	100
Specific surface area BET, m ² /g	≥ 80
Heavy metals, as Pb, ppm	≤ 20

Product specifications

	Hydroxyapatite content, % wt
nanoXIM•HAp102	15.0 ± 1.0
nanoXIM•HAp103	30.0 ± 3.0

Product properties

	Specific gravity, g/cm ³	Physical appearance
nanoXIM•HAp102	1.1 ± 0.1	white paste
nanoXIM•HAp103	1.2 ± 0.1	white paste (mouldable paste)

⁽¹⁾ A minimum of 95% hydroxyapatite phase purity is assured when the material is sintered for 15h at 1000°C, in accordance with ISO13779.

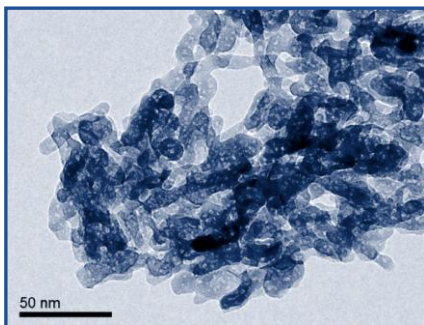


Figure 1. TEM image - General overview.

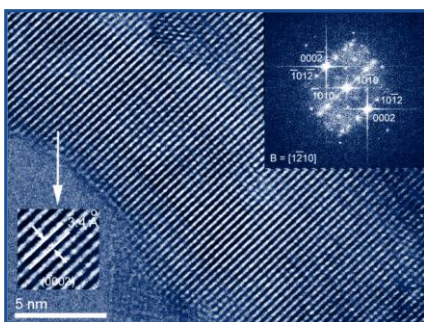


Figure 2. TEM image - Crystal orientation.

GENERAL INFORMATION

nanoXIM•HAp100 are synthetic nano-hydroxyapatite water based pastes suitable for the manufacture of bone grafts such as injectable bone substitutes.

Due to their high surface area and similarity with the bone mineral, nanoXIM•HAp100 pastes are highly osteostimulative, promoting the adhesion of bone cells and fast formation of new bone. The medical devices manufactured with nanoXIM•HAp100 pastes allow fast and safe bone regeneration and are highly biocompatible. No adverse reactions have ever been reported by the use of these materials.

Package

Available in PE food grade containers at different sizes.

Storage, Safety & 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 refer to the FLUIDINOVA Safety Data Sheet (SDS).