

PRODUCT INFORMATION

nanoXIM•HAp200 is a series of nanostructured synthetic hydroxyapatite powders, manufactured and supplied in 2 different particle sizes by FLUIDINOVA S.A.

General specifications

Phase purity, $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$, % ⁽¹⁾	100
Specific surface area BET, m^2/g	≥ 100
Heavy metals, as Pb, ppm	≤ 20

Product specifications

	Particle size, d_{50} , μm
nanoXIM•HAp202	5.0 ± 1.0
nanoXIM•HAp203	10.0 ± 2.0

Product properties

	Specific gravity, g/cm^3
nanoXIM•HAp202	0.50 ± 0.10
nanoXIM•HAp203	0.60 ± 0.10

⁽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. SEM image - General overview.

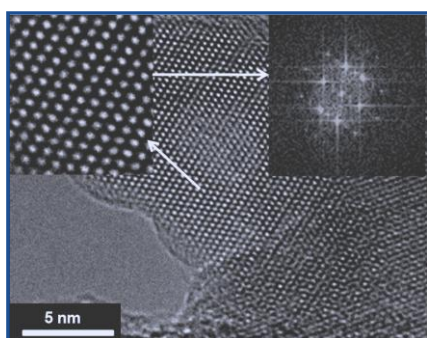


Figure 2. TEM image - Crystal orientation.

GENERAL INFORMATION

nanoXIM•HAp200 are white powders consisting of micrometric agglomerates of pure synthetic hydroxyapatite nanoparticles. These products are suitable for manufacturing bone graft substitutes such as porous granules and blocks for bone regeneration. The precise stoichiometry of these powders allow them to be sintered at high temperatures without significant phase changes, making them quite interesting to produce synthetic ceramics with controlled composition. Due to their high surface area and similarity with the bone inorganic phase, nanoXIM•HAp200 powders allow the construction of highly biocompatible and osteostimulative bone substitutes. No adverse reactions have ever been reported by the use of these materials in any medical device.

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.

For more details about product safety and handling information, please refer to the FLUIDINOVA Safety Data Sheet (SDS).

