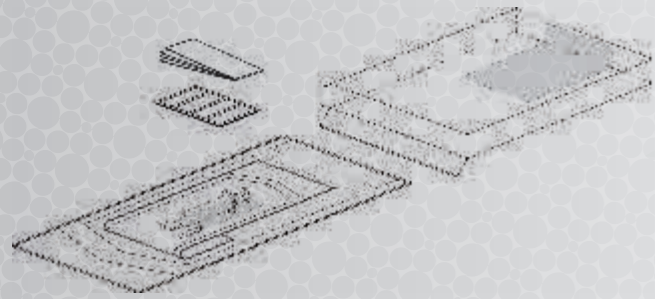


# NANO GEL®

## Storage

NANO GEL® is supplied sterile, ready to use in operating rooms. It must be kept in its original unopened packaging, in a dry clean place away from light, and at a temperature between + 2°C and + 25°C.



# NANO GEL®

## Products

Each dose of NANO GEL® is packaged in a pre-filled sterile syringe. NANO GEL® is sterilized by radiation at a minimum dose of 25 kGy. Single use. Do not re-sterilize. For any further information, please refer to the IFU.



## Hydroxyapatite Gel

DESIGNATION	REFERENCE
NANO GEL® 0,5ml Syringe	T860005
NANO GEL® 1ml Syringe	T860010
NANO GEL® 2,5ml Syringe	T860025
NANO GEL® 5ml Syringe	T860050



Classe III

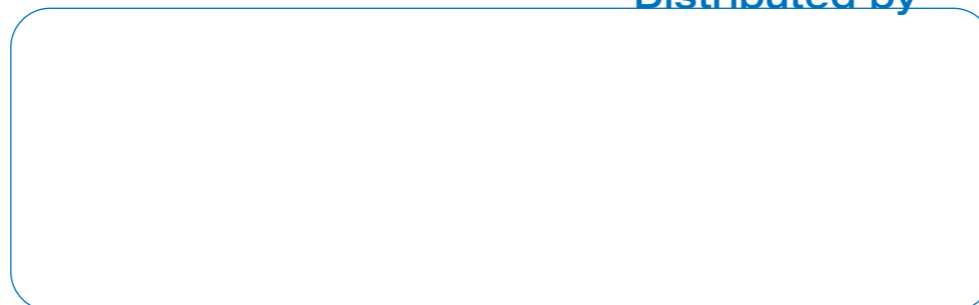


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Thanks to its nano composition and structure, NANO GEL® is a synthetic bone substitute which is the most similar to bone tissue.

This innovative product is an absorbable bone void filler which gives a rapid bone ingrowth for a bone reconstruction.

NANO GEL® offers to surgeon wide possibilities of use; open or percutaneous surgery to fill closed bone defects.

## Indications

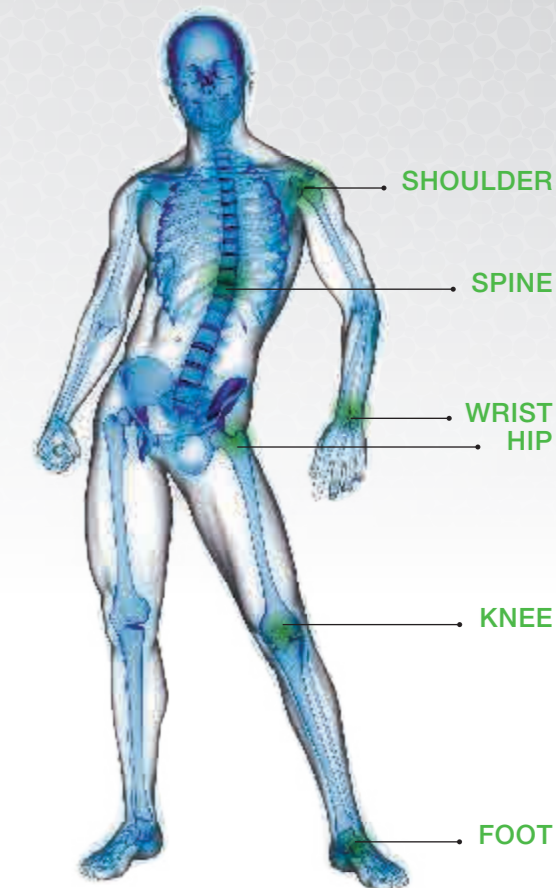
NANO GEL® is a bone void filler which can be applied by percutaneous way in closed defects, or directly implanted in the surgical site.

### Orthopaedic surgery:

- Treatment of bone defects like benign tumors or cysts
- Bone defects caused by traumatic lesions
- Arthrodesis (foot, ankle, spine, wrist, etc.)

### Spine surgery:

- Spine fusion
- Interbody cage filling



## In vivo study & clinicals cases :

## Properties

### COMPOSITION

- Hydroxyapatite, H<sub>2</sub>O sterile
- Nanoparticles between 100 nm to 200 nm
- Specific surface around 80 m<sup>2</sup>/g

### SYNTHETIC

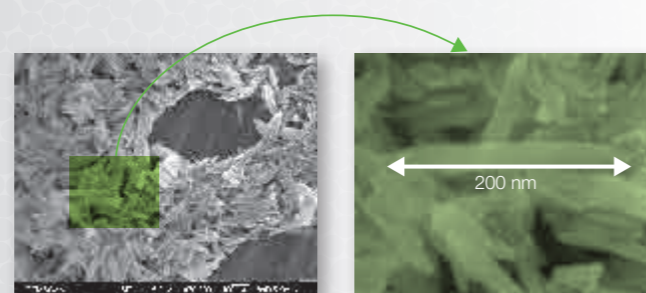
Free from organic phase

### INJECTABLE

Syringe ready to use

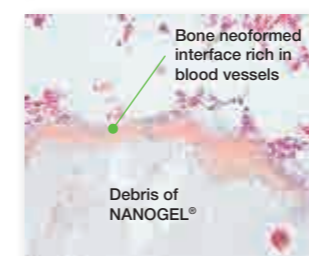
### STABLE

Pasty gel which keeps its stability *in situ*, even with blood cellular flow

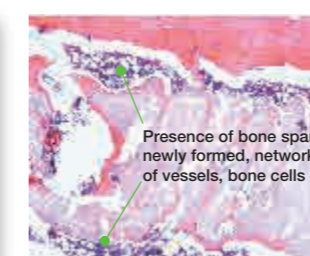


NANO GEL® STRUCTURE (x70 000 SEM)

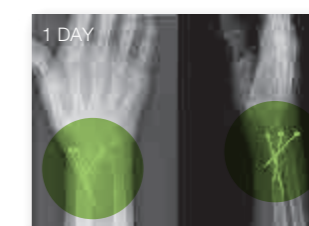
100 nm to 200 nm



2 WEEKS (MAGNIFICATION x40)



4 WEEKS (MAGNIFICATION x40)



AFTER STABILISATION



AFTER PIN ABLATION

### RESORBABLE

Nano crystals of HA easily resorb. *In vivo* studies have shown a quick cellular invasion and high bone ingrowth within a short time, after implantations

### BIOCOMPATIBLE

No adverse reaction observed

### OSTEOCONDUCTIVE

NANO GEL® promotes high bone ingrowth