

AREX®BONE

Injectable Synthetic Bone Substitute

AREX®BONE is an injectable synthetic bone substitute made of 99% calcium phosphate.

AREX®BONE is a product easy to set and easy to use by surgeons thanks to its long working time (4 to 5 minutes).

AREX®BONE is biocompatible, bioresorbable et osseoconductive. This will ensure proper osseointegration in human bone.

Mixing instructions



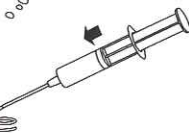
1. Put powder vial upside down. Drum on the table to check that no powder stays bottom of the vial. Pour entire quantity of liquid into powder vial.



2. Close the vial with the stopper. Mix vigorously for 30 seconds until mixture becomes a smooth homogeneous liquid.



3. Pour the mixture into the syringe connected to the cannula.



4. From time to time, place a drop of the mixture to check for hardening.

5. When AREX®BONE reaches a toothpaste like consistency, start injecting into the bone defect.

Chemical composition

Mixing the powder and the liquid produces a solid compound made of DCPD (55%) and beta TCP (45%). This reaction is slightly exothermic and gives rise to a transient temperature (less than 45°C).

Following the chemical reaction, AREX®BONE is made of two types of calcium phosphate:

- 55% DCPD (dicalcium phosphate dihydrated)
- 45% TCP (tricalcium phosphate)

Physical properties

Porosity: 40%

Pore size: < 5µm

Setting time: 9 à 11 minutes (including a working time of 4 to 5 minutes)

Reaction temperature: 43°C to 45°C

Compressive strength: approximately 35MPa

Bioresorption

When AREX®BONE is implanted inside a bone defect in close apposition with human bone, it will resorb with time and will be replaced simultaneously by new bone. This affords AREX®BONE a very good osseointegration thanks to its bioresorption and osseoconductivity abilities.

Packaging

ref. KA06C05	5cc	Box of 1- Sterile
ref. KA06C10	10cc	Box of 1- Sterile
ref. KA06C20	20cc	Box of 1- Sterile

www.arex.fr

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