

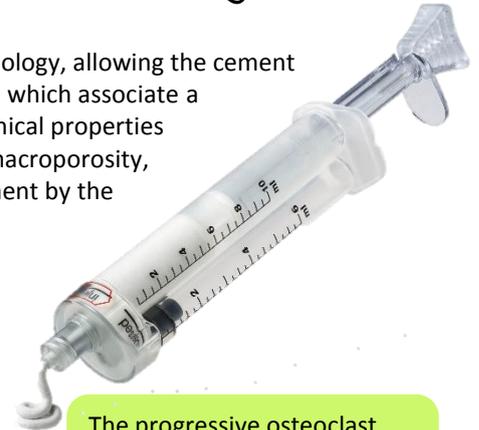
# AXOZ QS calcium phosphate cement

*Unique & simple delivery of a porous injectable bone graft*

**AXOZ QS** is an optimized calcium phosphate with respect to its optimal rheology, allowing the cement to be applied by injection under pressure thanks to its unique composition, which associate a polymer (HPMC) with resorbable phosphocalcique compounds. The mechanical properties aiming at better resistance under compression close to that of bone. The macroporosity, which ultimately guarantees the resorption of the cement and its replacement by the patient's bone tissue, is of importance and relatively high in AXOZ QS.

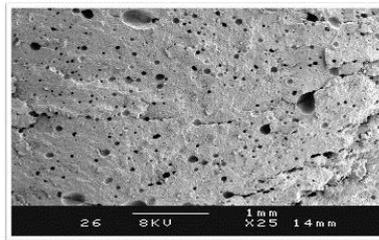
## FEATURES

- Simple preparation in **only 2 minutes** (incl. mixing).
- After injection, AXOZ QS will set up within **8 minutes** and within 24 hours it has reached a compression strength of 24 MPa.
- The AXOZ QS can be used, while prepared, for approx. 2 minutes.
- The compressive strength of AXOZ QS is close to that of human cancellous bone, **24 MPa**.
- AXOZ QS manifests a total porosity of 70%, with roughly 10% of macroporosity.



The progressive osteoclast resorption of AXOZ QS followed by new bone ensures that all of the material may be replaced eventually. Resorption of AXOZ QS will result in replacement by lamellar bone.

The resorption of AXOZ QS occurs not only at the surface but also from the inside thanks to the macroporosity of AXOZ QS, which allow the circulation of the cells (specially the osteoclast) inside the implant. At locations where AXOZ QS is resorbed, new bone will be deposited.



## INDICATIONS

- Postetolateral fusion
- Cancellous bone defects
- CMF

## STUDY

The conclusions of a preclinical study, where the product family AXOZ is compared with a well-known predicate, was that AXOZ shows equivalency to the predicate. From this study some features can be defined; AXOZ can be injected easily with not too much force. The final porosity high and the compressive strength above average. Because of its macroporosity, AXOZ is a product that will not remain dense after implantation, but

**AXOZ QS** is biocompatible, osteoconductive as well as osteotransductive and is an ideal material for use as a bone substitute.

allow the circulation of osteoclasts inside the implant. Interesting also are the histomorphometrical results for newly formed mineralized bone. Bone had grown centripetally and progressed towards the center of the defects.

## AVAILABLE AS

Art. No.	Type	Volume	Packing
4922005	Calcium Phosphate Cement	5.0 cc	Box of 1 unit
4922008	Calcium Phosphate Cement	8.0 cc	Box of 1 unit
4922016	Calcium Phosphate Cement	16.0 cc (2 x 8.0cc)	Box of 2 units
4921101	AXOZ Injector (sterile / single use)	---	Box of 1 unit

*The injector is not included in each unit of cement*

*A metal 7G cannula with luer-lock is included with each unit of AXOZ QS*



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