**AXOZ** calcium phosphate cement

**The new injectable, hardening and resorbable calcium phosphate**

**AXOZ** 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 associates resorbable polymers with phosphocalcic compounds. The mechanical properties aiming both at better resistance under compression and at a modulus of elasticity close to that of bone. The macroporousness, 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.

**FEATURES**
- Simple preparation in only 2 minutes (incl. mixing)
- After injection, AXOZ will harden within 20 – 25 minutes
- The AXOZ can be used, while prepared, for approx. 60 minutes
- The compressive strength of AXOZ is similar to that of human cancellous bone, 12 MPa.
- AXOZ manifests a total porosity of 65-70%, with roughly 8% of macroporosity
- Resorption within 6 – 8 months

**INDICATIONS**
- Spine fusion
- Cortial bone defects
- Cancellous bone defects
- Periodontal defects
- Sinus lift

**STUDY**

The conclusions of a preclinical study, where AXOZ is compared with a well-known predicate, was that the AXOZ is outperforming the predicate. The AXOZ can be injected for a longer period and with less force. The final porosity is 15% higher and the compressive strength is 6 times higher. Because of its nature apatitic, the predicate is a product that remains dense after implantation.

Interesting are the histomorphometrical results for newly formed mineralized bone. Bone had grown centripetally and progressed towards the center of the defects. AXOZ had, after 4, 8 and 12 weeks, respectively 2%, 8% and 13% more newly formed bone than the predicate.

**AVAILABLE AS**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Type</th>
<th>Volume</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>4921005</td>
<td>Calcium Phosphate Cement</td>
<td>5.0 cc</td>
<td>Box of 1 unit</td>
</tr>
<tr>
<td>4921008</td>
<td>Calcium Phosphate Cement</td>
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<td>Box of 1 unit</td>
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<td>4921016</td>
<td>Calcium Phosphate Cement</td>
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</tr>
<tr>
<td>4921100</td>
<td>AXOZ Injector (autoclavable)</td>
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<td>Box of 1 unit</td>
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</tbody>
</table>

The injector is not included in each unit of cement