



Biomaterials@Straumann®
Because one option is not enough.

botiss maxresorb® inject

ALLOPLASTIC BIPHASIC CALCIUM PHOSPHATE



maxresorb[®] inject

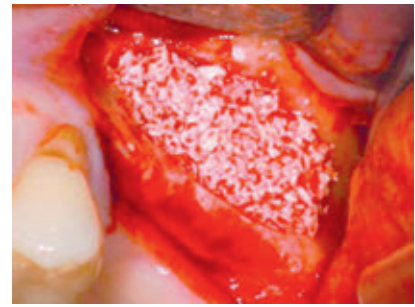
Available as granules and paste maxresorb[®] makes a difference in handling. Based on the knowledge on synthetic biphasic calcium phosphates maxresorb[®] comes with a nanostructured surface to provide ideal conditions for the adhesion of osteoblasts.

FEATURES AND BENEFITS

| | |
|-----------------------------------|--|
| Handling | maxresorb [®] inject is a ready to use paste. The syringe design allows easy application to the defect site. |
| Viscosity and moldability | The non-hardening viscous character of maxresorb [®] inject is easily molded to the defect site. It adapts to surface contours and provides maximum bone contact. |
| Biofunctionality | Nano-HA particles (size ~15-50 nm) offer a very large surface area to cellular interactions and are fast resorbing. The nano-HA component, which makes up about 80% of the material, is resorbed within 6-8 weeks. The maxresorb [®] granules help to maintain volume over time. |
| Reproducibility and safety | The chemical process technology used in the production of maxresorb [®] inject ensures high reproducibility and safety of the material. Because of its 100% synthetic composition any risk of infection can be excluded. |
| Non-hardening | maxresorb [®] inject is a non-hardening bone putty that promotes fast bone regeneration by ingrowth of blood vessels and cells through its porous structure. Hardening bone putties are often associated with low tissue integration due to the formation of a solid body that prevents cell and vessel penetration into the material. |

PROPERTIES

| Attribute | Description |
|--------------------------|---|
| Origin | Synthetic |
| Composition | Water + nano hydroxyapatite particles (> 80% volume), maxresorb® granules (biphasic calcium phosphate) (< 20% volume) |
| Degradation kinetics | 100% resorbable in 4 phases: 1. Water (carrier) 2. Active HA (nano-HA) 3. & 4. Biphasic calcium phosphate: fast resorption of β -TCP (3-6 months), slow resorption of HA |
| Healing/integration time | 4-6 months |
| Storage temperature | 5-30 °C |
| Shelf life | 2 years |



Courtesy of Prof. Dr. Daniel Rothamel, Cologne/Germany

APPLICATION AND HANDLING

Opening

maxresorb® inject is delivered sterile and must be used immediately after opening in an aseptic environment.

Rehydration

The paste is ready to use, but it can also be mixed with blood, autologous bone or bone substitute materials.

Application

maxresorb® inject can be injected directly into the defect using the syringe. It is also possible to shape it before application onto the defect or to apply it with a spatula.

Covering

maxresorb® inject must always be covered with a membrane in order to stabilize the material and to ensure undisturbed osseous regeneration.

Wound closure

Ensure that soft tissue coverage of the grafted site is complete and free of tension.

Healing time and re-entry

The appropriate healing time is patient- and site-dependent and has to be decided by the clinician based on the assessment of the patient's individual situation.

Material stability

maxresorb® inject is not the material of choice for larger augmentations due to insufficient stability. The nano-HA component, which makes up about 80% of the material, is resorbed within 6-8 weeks. The material is non-hardening i.e. does not harden upon application.

Storage temperature

Please make sure that maxresorb® inject is stored at the recommended storage temperature (5-30 °C). Higher temperatures will result in drying of the paste. Freezing of the water component may result in changes of the material properties that cannot be reversed.

Recommended for

maxresorb® inject is recommended for implantology, oral surgery, periodontology and craniomaxillofacial surgery (CMF):

- Extraction sockets
- Intraosseous defects
- Furcation defects
- Sinus lift
- Regeneration in small/contained defects

Available in the following sizes

| Code | Description | Product |
|----------|----------------------------|--------------------------|
| BO-22005 | 1x syringe, 1x 0.5 cc (ml) | botiss maxresorb® inject |
| BO-22010 | 1x syringe, 1x 1.0 cc (ml) | |
| BO-22025 | 1x syringe, 1x 2.5 cc (ml) | |



For further informations please visit
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