

Competitor Fact Sheet: Cerament®



For Biocomposites' employees and authorized distributors internal use only.



Feature	genex®	Cerament® Bonesupport® AB
Composition	Powder: 50% β -tricalcium phosphate, 50% CaSO_4 hemihydrate Mixing solution: Sterile water	Powder: 60% CaSO_4 , 40% Hydroxyapatite (HA) Mixing solution: Liquid containing iohexol ⁶
Contraindicated for infected sites	No ¹	Yes ⁵
Available sizes	5cc, 10cc	5cc, 10cc, 18cc
Wait time before injection	No	3 minutes ⁷
Setting time	15 minutes ¹	15 minutes ⁷
Temperature sensitive setting	No ¹	No ⁶
Drillable when fully set	Yes ¹	Yes ⁶
Versatility	Moldable, packable, injectable ¹	3 bead sizes, Injectable, moldable ^{5, 6, 9}
Injection flexibility	<ul style="list-style-type: none"> Luer Lock syringe with narrow plastic cannula included for hard-to-reach defects OsteoPrecision™ Graft Delivery Device available to withstand insertion pressure 	<ul style="list-style-type: none"> Injection device with 2 tip extenders included
Impurities	No ¹	Unknown

Feature	genex®	Cerament® Bonesupport® AB
Claimed absorption rate	Up to 12 months ²	6-12 months ⁶
Fully absorbs	Yes ¹	No ¹
Dry compressive strength	15 MPa ¹	40-60 MPa ⁸
Radiopaque	Yes ¹	Yes ⁶
Exothermic	No ¹	No ⁶
Key selling points and weaknesses	(+) Precisely balanced β -tricalcium phosphate/calcium sulfate hemihydrate ¹ (+) Contains no HA or insoluble impurities ¹ (+) Fully absorbed within 12 months ² (+) Not contraindicated for use in infected sites ¹ (+) No waiting period required before injection (+) Provides options for injection flexibility (+) Drillable when fully set ¹ (+) Radiopaque ¹ (+) Non-exothermic ¹ (+) No precaution against use in articulating surfaces ¹ (+) Negatively charged surface chemistry accelerates bone growth up to 5x normal levels ³ (+) Restores bone to normal trabecular structure in 36 weeks ⁴ (+) Comprehensive support network for our customers and hospitals	(+) Radiopaque during injection ⁶ (+) Drillable ⁶ (+) Non-exothermic ⁶ (+) Optional bead tray available for order ⁹ (-) Contains HA, which has a slow and incomplete absorption rate ¹ (-) HA can cause a long-term nidus for infection ¹ (-) Contraindicated for infected sites ^{5, 8} (-) Contraindicated for patients with a history of serious reaction to iodine based radio contrast agents (iohexol component) ^{5, 8} (-) Precaution to avoid intra-articular use ⁵ (-) Requires 3 minute wait time before injection * (+) = competitor selling points (-) = competitor weaknesses

References:

1. Biocomposites, Data on file.
2. Yang HL et al. Bone healing response to a synthetic calcium sulfate/beta-tricalcium phosphate graft material in a sheep vertebral body defect model. J Biomed Mater Res B Appl Biomater 2012;100B(7):1911-21.
3. Cooper, J.J., J.A. Hunt, and F. Pu, Enhancing the Osteogenic Potential of Bioabsorbable Implants through Control of Surface Charge., in Society for Biomaterials 2007 Annual Meeting. 2007: Chicago, Illinois, USA.
4. Sergey V. Dorozhkin. Calcium Orthophosphate-Based Bioceramics and Biocomposites. Published 2016 by Wiley - VCH Verlag GmbH & Co. KGaA.
5. BONESUPPORT® AB Instructions for use CERAMENT™ Bone Void Filler - A 0210. Document No. IFU 0007-08 en 2014-06.
6. BONESUPPORT® AB CERAMENT™ Bone Void Filler Brochure. PR 0346-03 en US.
7. BONESUPPORT® AB CERAMENT™ Bone Void Filler Mixing Guide. PR 0647-01 en EU/US.
8. BONESUPPORT® AB CERAMENT™ Bone Void Filler Product Fact Sheet. PR 0649-01 en EU/US.
9. BONESUPPORT® AB CERAMENT™ Bone Void Filler Bead Tray Product Fact Sheet. PR 0836-01 en US.

For indications, contraindications, warnings and precautions see Instructions for Use.

©2020, Biocomposites, genex and Power to Restore are trademarks/registered trademarks of Biocomposites Ltd. All rights reserved.

No unauthorized copying, reproduction, distributing or re-publication is allowed unless prior written permission is granted by the owner, Biocomposites Ltd.

Patents granted: EP I390086 BI, US 8632796, CN ZL02809194.9, US 8496955

MA0308R1