Competitor Fact Sheet: **Cerament®**

Biocomposites®

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Feature	STIMULAN®	Cerament® Bonesupport®AB
Composition	Powder: 100% Pharmaceutical-grade $CaSO_4$ Mixing solution: Sterile water	Powder: 60% $CaSO_4$, 40% Hydroxyapatite (HA) Mixing solution: Liquid containing iohexol[5]
Cleared for infected sites	Yes[1]	No - contraindicated[4]
Available sizes	Rapid Cure: 3cc, 5cc, 10cc, 20cc Kit: 5cc, 10cc	5cc, 10cc, 18cc
Setting options and times	Rapid Cure: 4 minutes Kit (Standard set): 8 minutes	Standard set: 15 minutes[6]
Formats	3 bead sizes, 2 bullet sizes, paste, injectable	Injectable, moldable[4, 5]
Bead and bullet sizes	3.0mm, 4.8mm, 6.0mm beads 7.0mm, 9.0mm bullets	Not available
Bead or bullet mat included	• Universal bead mats are included in 5cc, 10cc and 20cc boxes • A combination bead and bullet mat is included in the 3cc box • A bullet mat and introducer system is available for order	Not available
Impurities	No impurities[2]	Unknown
Claimed absorption rate	4-8 weeks[1]	6-12 months[5]
Fully absorbs	Yes[1]	No[2]

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pH	Physiologic[2]	Slightly acidic[2]
Hydrophilic or Hydrophobic	Hydrophilic[2]	Hydrophilic[2]
Compressive strength	Wet: 21 MPa Dry: 14.96 MPa[2]	Wet: 5-8 MPa Dry: 40-60 MPa[7]
Third body damage	No third body damage to articulating surfaces[2]	May cause third body damage[2]
Peer-reviewed evidence	382[2]	150[8]
Key selling points and weaknesses	(+) Cleared for use in infected sites[1] (+) Only STIMULAN undergoes a proprietary DRy26® recrystallization method which consists of 26 steps over 6 weeks and results in its consistent and reliable performance[3] (+) 100% Pharmaceutical-grade $CaSO_4$ (+) Contains no HA or insoluble impurities[2] (+) Aborbs at an optimal rate and leaves no nidus for infection[2] (+) No third body damage and no precaution against use in articulating surfaces[1, 2] (+) Fast and standard set options available (+) Bead and bullet formats available (+) Comprehensive support network for our customers and hospitals (+) 50,000 cases per year[2]	(+) Radiopaque during injection[5] (+) Drillable[5] (-) Contraindicated for infected sites[4, 7] (-) Contraindicated for patients with a history of serious reaction to iodine based radio contrast agents (iohexol component)[4, 7] (-) Contains HA, which has a slow and incomplete absorption rate[2] (-) HA can cause a long-term nidus for infection[2] (-) Precaution to avoid intra-articular use[4] (-) May cause third body damage[2] (-) No fast setting option available[6] * (+) = competitor selling points (-) = competitor weaknesses

References:
1. Biocomposites Ltd, STIMULAN Instructions for Use.
2. Biocomposites, Data on file.
3. Cooper, J.J., Method of producing surgical grade calcium sulphate; Patent. 1999.
4. BONESUPPORT® AB Instructions for use CERAMENT™ Bone Void Filler – A 0210. Document No. IFU 0007-08 en 2014-06.
5. BONESUPPORT® AB CERAMENT™ Bone Void Filler Brochure. PR 0346-03 en US.
6. BONESUPPORT® AB CERAMENT™ Bone Void Filler Mixing Guide. PR 0647-01 en EU/US.
7. BONESUPPORT® AB CERAMENT™ Bone Void Filler Product Fact Sheet. PR 0649-01 en EU/US.
8. BONESUPPORT® AB Website: https://www.bonesupport.com/en-eu/

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