

STIMULAN[®]

POWER TO TRANSFORM[™]

Uniquely
engineered
for the
precision and
control you
demand
every time

Properties that drive performance

The unique crystal configuration and construction of STIMULAN brings its own set of qualities to fully support your infected cases.¹¹

- Controlled purity (no insoluble impurities)
- No hydroxyapatite
- Hydrophilic

Control and performance at your fingertips

STIMULAN is a truly absorbable calcium sulfate precision engineered with your demands at the forefront.

- ✓ One of the few calcium compounds FDA cleared for infected sites¹
- ✓ No hydroxyapatite, insoluble impurities or PMMA debris
 - Does not cause third body damage²⁻⁴
 - Does not prevent use in articulating surfaces²⁻⁴
 - Does not act as a nidus for infection⁵⁻¹⁰

See the STIMULAN difference in your cases

- ✓ Truly absorbable⁵⁻¹⁰
- ✓ Optimal absorption profile⁵⁻¹⁰
- ✓ Reliable setting time¹²
- ✓ Physiological compatibility with the body^{5,10,12}
- ✓ No third body damage²⁻⁴

STIMULAN®

Consistency is hard earned and uniquely achieved

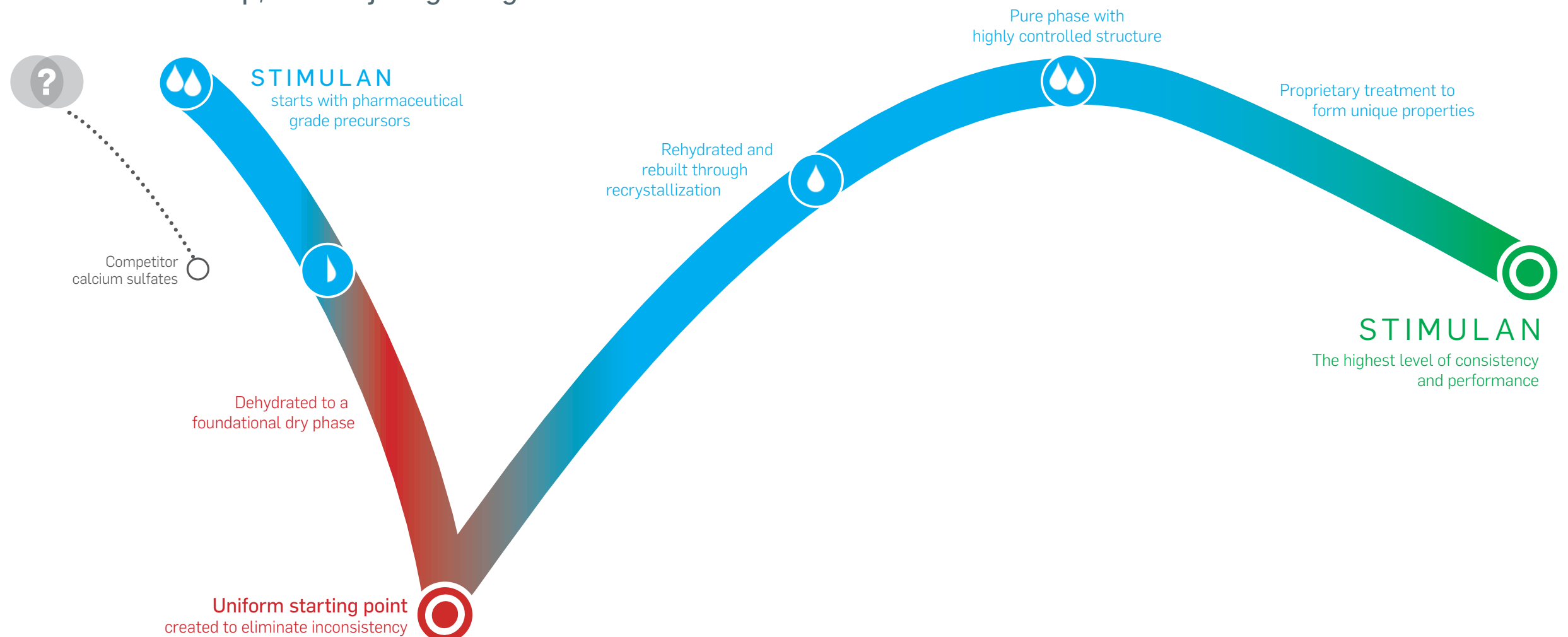
There is no shortcut to perfection. Which is why we go the extra mile to bring you the exceptional performance characteristics of STIMULAN – all made possible through our proprietary DRy26® methodology.

Each and every synthesis of STIMULAN undergoes a 26 step process that starts with pharmaceutical-grade precursors and takes over 6 weeks to reach maturity.

Our unique DRy26® recrystallization method dehydrates then rehydrates to precisely restructure the calcium sulfate. This ensures a uniform starting point from which the material is rebuilt under strictly controlled conditions for the highest level of consistency.

The result is as you would expect from the world's leading expert in innovative calcium technologies.

Where others stop, we are just getting started



Case-by-case flexibility and success

Every part of STIMULAN has been designed to provide simplicity, intra-operative flexibility and optimum results. A variety of formats are available, all convenient to prepare and fast to set.

Unrivalled evidence and expertise brings confidence

With our industry-leading knowledge, dedication and experience, you can be sure that the high level of consistency you demand in your cases will be met.



Beads 3 mm 4.8 mm 6 mm



Peer reviewed papers, presentations and posters **600** Infection related **575** Multiple patient **314**

Used in **150,000** cases every year

Bullets 7 mm 9 mm



Paste



Support as reliable as our outcomes

To ensure that you achieve the consistent results you expect, our comprehensive network of regional calcium sulfate specialists, expert sales representatives and surgeons already using STIMULAN are ready to support your use.

STIMULAN[®]

When you need it – STIMULAN delivers every time

- ✓ FDA cleared for placement at an infected site¹
- ✓ Uniquely engineered through our DRy26[®] recrystallization method¹¹
- ✓ No hydroxyapatite, insoluble impurities or PMMA debris⁵⁻¹⁰
- ✓ Does not cause third body damage²⁻⁴
- ✓ Does not prevent use in articulating surfaces²⁻⁴
- ✓ Does not act as a nidus for infection⁵⁻¹⁰
- ✓ Truly absorbable⁵⁻¹⁰
- ✓ Reliable for time sensitive situations¹²

Find out more at biocomposites.com

References: **1.** Biocomposites, STIMULAN Instructions for Use. **2.** Cowie, R.M. et al., Influence of third-body particles originating from bone void fillers on the wear of ultra-high-molecular-weight polyethylene. *J Engineering in Medicine*, 2016, Vol. 230(8) 775-783. **3.** Cowie, R.M. et al., The influence of a calcium sulphate bone void filler on the third-body damage and polyethylene wear of total knee arthroplasty. *Bone Joint Res*, 2019, 8(2): p. 65-72. **4.** Analysis of the Wear Effect 3rd Body Particulate (Bone Cement) has on UHMWPE, Accutec Testing Laboratory, Fairfield OH, K13107732-1, 2014. **5.** Somasundaram, K. et al., Proximal humeral fractures: the role of calcium sulphate augmentation and extended deltoid splitting approach in internal fixation using locking plates. *Injury*, 2013, 44(4): p. 481-7. **6.** Lei D., Zhanzhong, et al., Treatment of Distal Radius Bone Defects with Injectable Calcium Sulphate Cement. In: *Bone Grafting*, A., Zorzi, Editor. 2012. InTech, p. 125-134. **7.** Lei, D., Jing, L., Yang-yong, S., Calcium sulfate versus calcium phosphate in treating traumatic fractures. *Journal of Clinical Rehabilitative Tissue Engineering Research*, 2008. **8.** Lei, D., Ma, Z., Jing, X., Treatment of bone defect with injectable calcium sulfate powder in distal fractures of radius. *Chinese Journal of Bone Tumor and Bone Disease*, 2007. **9.** Aiken, S.S., Cooper, J.J., and Zhou, S., Osseointegration of a calcium sulphate bone substitute in a large animal model, in *The 5th International Congress of Chinese Orthopaedic Association*. 2010: Chengdu, China. **10.** Lazarou, S.A. et al., Correction of alveolar cleft with calcium-based bone substitutes. *J Craniofac Surg*, 2011, 22(3): p. 854-7. **11.** Cooper, J.J., Method of producing surgical grade calcium sulphate; Patent. 1999. **12.** Biocomposites, Data on file.

For indications, contraindications, warnings and precautions see Instructions for Use. Concurrent use of locally administered antibiotics may affect setting time. This brochure may include the use of STIMULAN or techniques that go beyond the current clearance/approval granted by the relevant regulatory authority. Please contact your local representative for further information.

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Patents granted: GB2367552, EP 1204599 B1, US 6780391, EP 2594231 B1, US 8883063, CN ZL201210466117.X, GB2496710, EP 3058899 B1, US 10390954, US 10,588,748, CN ZL 201610089710.5

Patents pending: GB1502655.2, GB1704688.9, EP 18275044.8, US 15/933936, CN 108619579A