## Competitor Fact Sheet: PRO-DENSE $^{\text{TM}}$



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Feature	genex°	PRO-DENSE™ Wright Medical Group
Composition	Powder: 50% β-tricalcium phosphate, 50% CaSO <sub>4</sub> hemihydrate Mixing solution: Sterile water <sup>1</sup>	Powder: 75% mined CaSO <sub>4</sub> hemihydrate (OSTEOSET®), 25% brushite + granular β-tricalcium phosphate Mixing solution: Neutralized glycolic acid <sup>1,4,5</sup>
Scaffold type	Osteoconductive with negative surface charge for accelerated bone restoration <sup>2</sup>	Osteoconductive <sup>5</sup>
Available sizes	5cc, 10cc	2cc, 5cc, 7cc, 10cc, 12cc, 15cc, 40cc 15cc Core Decompression Kit <sup>5,6</sup>
Setting time	15 minutes <sup>1</sup>	20-30 minutes <sup>5</sup>
Temperature sensitive setting	No <sup>1</sup>	No <sup>5</sup>
Drillable when fully set	Yes¹	Yes <sup>5,6</sup>
Versatility	Moldable, packable, injectable <sup>1</sup>	Packable, injectable <sup>6</sup>
Injection flexibility	<ul> <li>Luer Lock syringe with narrow plastic cannula included for hard-to-reach defects</li> <li>OsteoPrecision™ Graft Delivery Device available to withstand insertion pressure</li> </ul>	<ul> <li>Delivery syringe with two cannula sizes included</li> <li>Disposable syringe only kit available</li> </ul>
Impurities	No <sup>1</sup>	Contains non-absorbable impurities due to mined CaSO <sub>4</sub> (OSTEOSET®) component <sup>1,7</sup>

rate  Fully absorbs  You  Dry compressive strength  Radiopaque  PH  PI  (+	p to 12 months³	6-I2 months <sup>5</sup>
Dry compressive strength 15  Radiopaque You pH PI (+		
Radiopaque You (+	es <sup>1</sup>	May not fully absorb <sup>1</sup>
pH PI	5 MPa <sup>1</sup>	25 MPa <sup>1</sup>
(+	es <sup>1</sup>	Yes <sup>5</sup>
	hysiologic¹	Acidic <sup>1</sup>
Key selling points and weaknesses  (+ (+ (+ (+ (+ (+ (+	Precisely balanced β-tricalcium phosphate/calcium sulfate hemihydrate¹ Ploow Pharmaceutical-grade CaSO₄ component Ploom contains no Hydroxyapatite (HA) or insoluble impurities¹ Plully absorbed within 12 months³ Ploom contraindication against use in articulating surfaces¹ Physiologic pH¹ Phydrophilic¹ Provides options for injection flexibility Provides options for injection flexibility Provides when fully set¹ Ploom charged surface chemistry accelerates bone growth up to 5x normal levels² Prestores bone to normal trabecular structure in 36 weeks³	<ul> <li>(+) Indicated for use in benign bone cysts and tumors in children ages 6+6</li> <li>(+) Available in a core decompression kit for avascular necrosis<sup>5,6</sup></li> <li>(+) Radiopaque<sup>5</sup></li> <li>(+) Drillable when fully set<sup>5,6</sup></li> <li>(-) Mined CaSO<sub>4</sub> component (OSTEOSET®)<sup>1,4,5</sup></li> <li>(-) CaSO<sub>4</sub> (OSTEOSET®) contains 1.1% insoluble impurities<sup>7</sup></li> <li>(-) Brushite component converts to Hydroxyapatite (HA) after implantation<sup>1</sup></li> <li>(-) HA has a slow and incomplete absorption rate<sup>1</sup></li> <li>(-) HA can cause a long-term nidus for infection<sup>1</sup></li> <li>(-) Contraindicated in articulating surfaces<sup>6</sup></li> <li>(-) Acidic pH<sup>1</sup></li> </ul>

\* (+) = competitor selling points

(-) = competitor weaknesses

1. Biocomposites, Data on file.

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

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<sup>2.</sup> Cooper, J.J., J.A. Hunt, and F. Pu, Enhancing the Osteogenic Potential of Bioabsorbable Implants through Control of Surface Charge. Presented at the Society for Biomaterials 2007 Annual

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3. 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.

4. Pro-Dense™ Injectable Regenerative Graft Technical Monograph. 2019 Wright Medical Group N.V. or its affiliates. AP-010805A 19-Nov-2018.

5. Pro-Dense™ Injectable Regenerative Graft Competitive Guide. 2018 Wright Medical Group N.V. or its affiliates. AP-002461B\_21-Nov-2018.

6. Pro-Dense™ Injectable Regenerative Graft Comprehensive Surgical Technique Booklet. 2019 Wright Medical Group N.V. or its affiliates. AP-010792A\_16-Nov-2018.

7. Wright Medical Technology OSTEOSET® Bone Graft Substitute Technical Monograph. 010662A\_21-Jul-2014.