

cerabone[®]

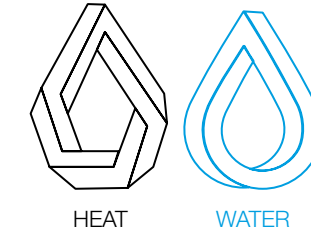
The purest volume stable bovine bone graft

cerabone[®]

100% PURE BONE MINERAL

cerabone®

THE NATURAL BOVINE BONE GRAFT



cerabone® is produced from the femoral heads of cattle by a unique 1200°C manufacturing process utilizing heat and water only (free of chemical additives).

1200°C MAXIMUM SAFETY

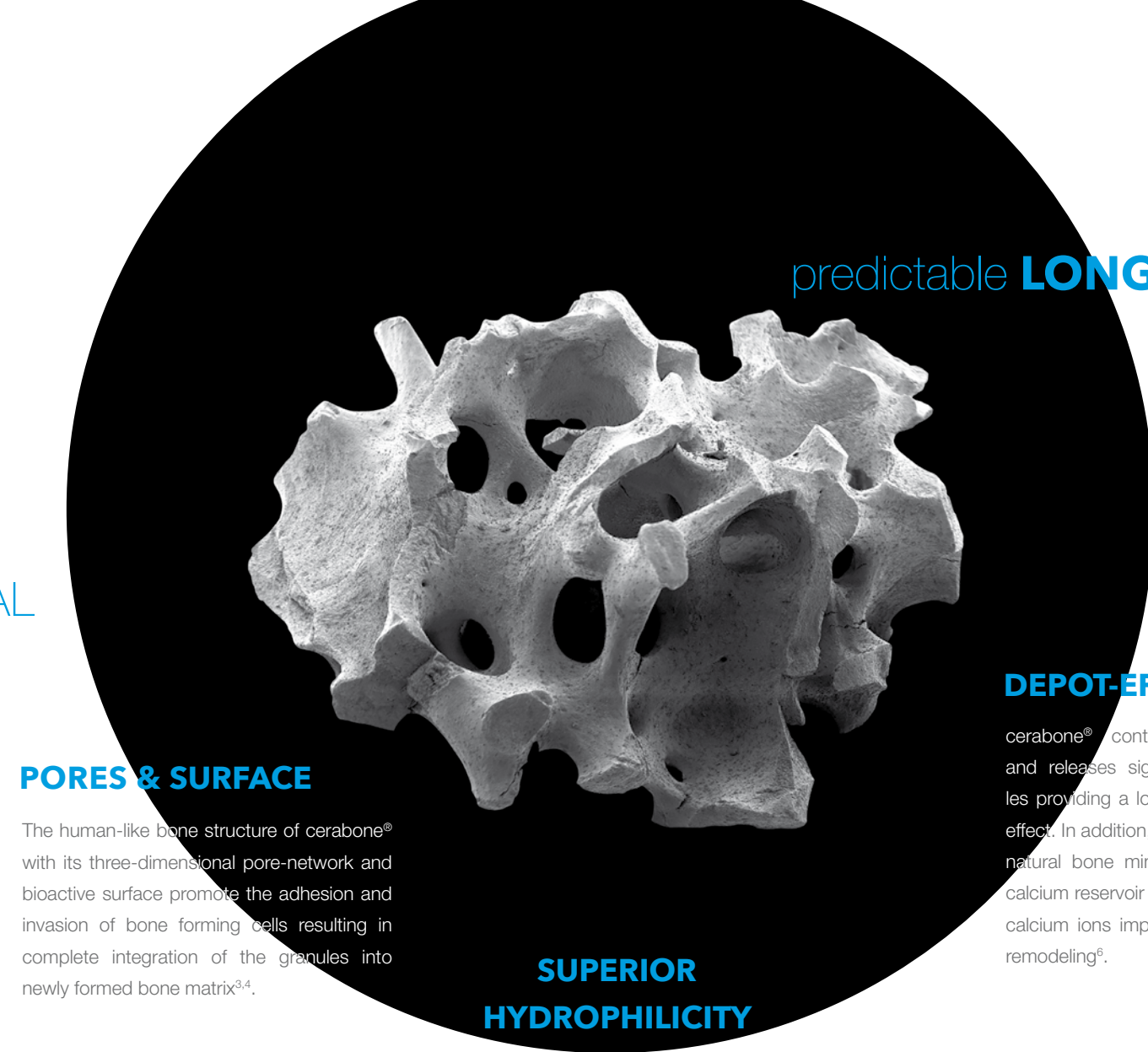
100% PURE NATURAL BONE MINERAL

UNIQUE PRODUCTION PROCESS

The sophisticated processing of the bovine bone removes all organic components resulting in a bone mineral with exceptional purity - besides hydroxyapatite and trace elements such as iron and zinc, no other phases are found for cerabone®¹.

Potential infectious agents such as bacteria, viruses and prions are removed through the high temperature treatment. Heating above 800°C ensures a complete inactivation of the infectivity of potential prions².

1200TRUST.COM



predictable **LONG-TERM CLINICAL** outcome

PORES & SURFACE

The human-like bone structure of cerabone® with its three-dimensional pore-network and bioactive surface promote the adhesion and invasion of bone forming cells resulting in complete integration of the granules into newly formed bone matrix^{3,4}.

SUPERIOR HYDROPHILICITY

The interconnected pores and rough, hydrophilic surface of cerabone® support the adhesion of proteins from the blood⁵. Following hydration, the particles stick together facilitating their application to the defect site.

DEPOT-EFFECT

cerabone® continuously binds and releases signaling molecules providing a long-term depot-effect. In addition, the 100% pure natural bone mineral acts as a calcium reservoir slowly releasing calcium ions important for bone remodeling⁶.

GET IN TOUCH:

cerabone@botiss.com

Millions of patients treated in regenerative dentistry
In use for > 20 years in various medical applications
(e.g. craniofacial surgery, oncology and hand and spine surgery)

predictable **LONG-TERM CLINICAL** outcome

Dental implants placed in solely cerabone®-grafted sites or sites augmented with cerabone® in combination with autologous bone demonstrated the long-term stability of cerabone® with cumulative **implant survival rates of 98.73 - 100%** by mean follow-ups of 12 - 65.93 months post-operative⁷⁻¹¹.



The long-term success of cerabone®

is based on its **excellent osteoconductive properties** and **exceptional purity**, achieved by a unique **1200°C** temperature treatment processing.

CLINICAL INDICATIONS:

Implantology, Periodontology and Oral and CMF Surgery

- Sinus lift
- Horizontal and vertical augmentation
- Intraosseous defects (1 to 3 walls)
- Peri-implant defects
- Socket and ridge preservation
- Furcation defects (class I and II)

1 Tadic D et al. (2004) Biomaterials. Mar;25(6):987-94.
2 Brown P et al. (2000) PNAS. Vol. 97 No. 7, pp. 3418-3421.
3 Seidel P et al. (2004). Materialwissenschaft und Werkstofftechnik, Vol. 35 No. 4, pp. 208-212.
4 Tawil G et al. (2018) Int J Oral Maxillofac Implants. September/October;33(5):1089-1096.
5 Trajkovski B et al. (2018) Materials, 11(2), 215.
6 Berberi A et al. (2014) Biomed Res Int. 2014;2014:320790.
7 Lorean A et al. (2014) Int J Oral Maxillofac Implants 29 (3), 705-708.

8 Tawil G et al. (2016) Int J Oral Maxillofac Implants. 2016 Jul-Aug;31(4):827-34.
9 Khojasteh A et al. (2015) Clin Implant Dent Relat Res. 2016 Apr;18(2):342-59.
10 Cardaropoli D et al. (2019) Int J Periodontics Restorative Dent. 2019 Sep/Oct;39(5):633-641.
11 Kamaçajaja DB et al. (2019) Case Rep Dent. Oct 27;2019:5431752.
12 Pelekanos S et al. (2017) Int J Periodontics Restorative Dent. 2017 Sep/Oct;37(5):729-735.
13 Khojasteh A et al. (2016) Br J Oral Maxillofac Surg. Oct;54(8):950-955.
14 Kollati P et al. (2019) J Indian Soc Periodontol. 23(2):145-151.

KEY INDICATIONS

DR. STAVROS PELEKANOS, ATHENS, GREECE

BONE AUGMENTATION IN THE ANTERIOR REGION¹² - Soft tissue support for a stable aesthetic outcome



DR. BERNHARD GIESENHAGEN, KASSEL, GERMANY

RESORPTION PROTECTION¹³ - Contouring around allografts and prevention from resorption



DR. ALESSANDRO ROSSI, MILAN, ITALY

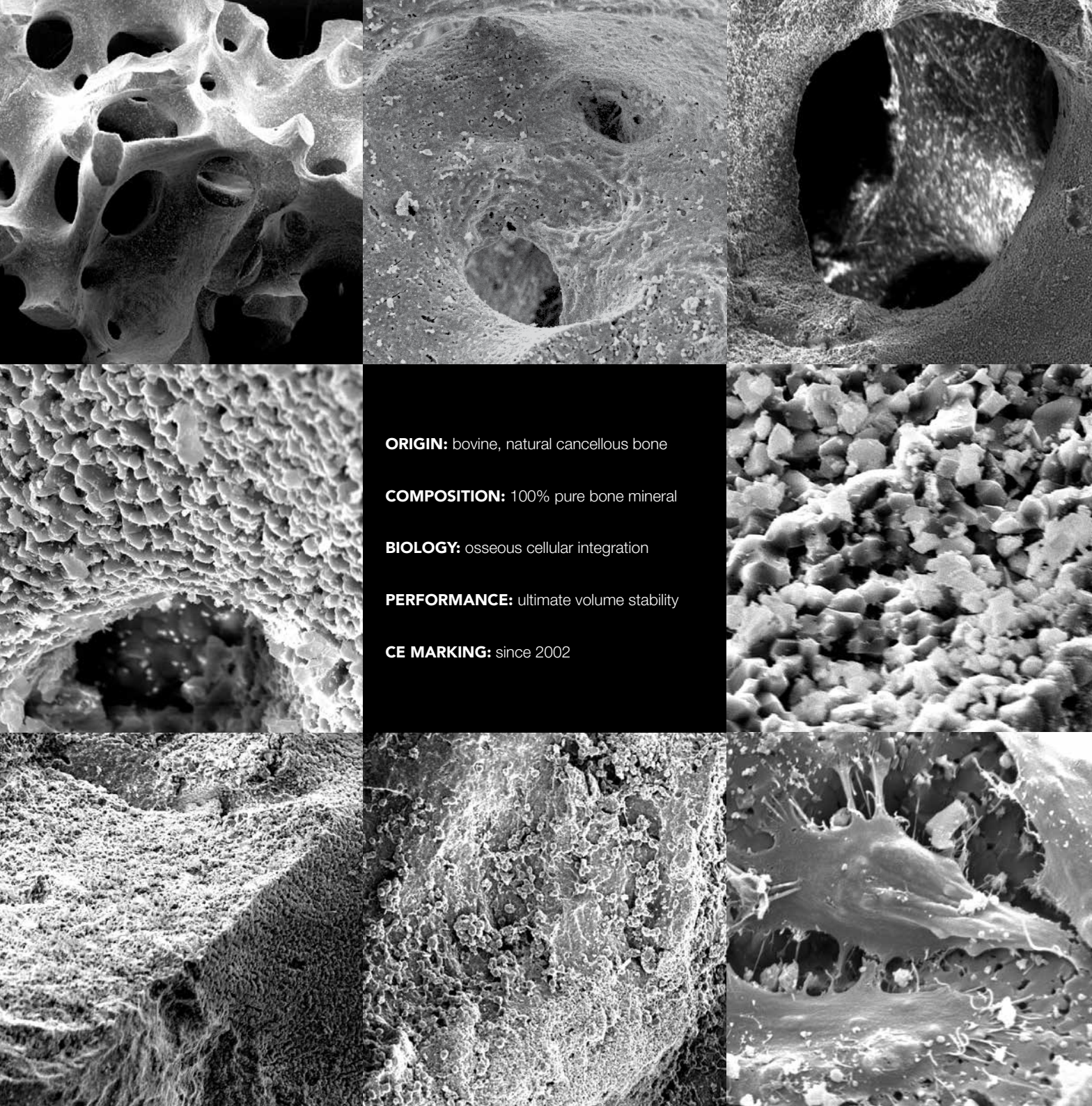
MAXILLARY SINUS FLOOR AUGMENTATION⁴ - Volume stability for long-term implant success



DR. MANUEL JOSE ABARCA, TEMUCO, CHILE

SOCKET/RIDGE PRESERVATION¹⁴ - Maintenance of the ridge shape





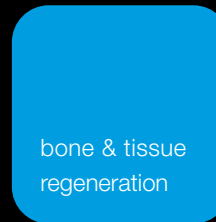
ORIGIN: bovine, natural cancellous bone

COMPOSITION: 100% pure bone mineral

BIOLOGY: osseous cellular integration

PERFORMANCE: ultimate volume stability

CE MARKING: since 2002



botiss biomaterials GmbH
Hauptstr. 28
15806 Zossen / Berlin
Germany

Tel.: +49 33769 / 88 41 985
Fax: +49 33769 / 88 41 986

contact@botiss.com
www.botiss.com
facebook: botissdental

botiss-campus.com
botiss-dental.com