

Straumann® SocketPlug

Bone Graft Composite Plug

SocketPlug is a calcium phosphate-based mineral with a synthetic carbonate apatite structure physically and chemically comparable to the matrix of human bone. The similarity in structure between the SocketPlug mineral and natural anorganic bone mineral mimics natural bone as shown in vivo resorption and remodeling profile. The low crystallinity of carbonate apatite supports bioresorption and the synthetic mineral has been shown to increase the bone forming activities of osteogenic cells as well as enhance bioresorption of bone by osteoclasts. The makeup of the SocketPlug is approximately 80% mineral combined with 20% Type I Achilles bovine tendon collagen.

Clinical Advantage: Research has shown that after tooth extraction the jaw bone has a natural tendency to become narrow, and lose its original shape because the bone quickly resorbs, resulting in 30% loss in bone volume in the first 12 weeks.¹

SocketPlug offer clinician's a quick and simple way to deliver socket preservation in cases where traditional bone grafting is not an ideal treatment plan. Just insert SocketPlug into bleeding extraction site following debridement and suture over top. Membrane is used at clinician's discretion.



Features and Benefits



Easy to use,
plug-and-go design
for socket preservation



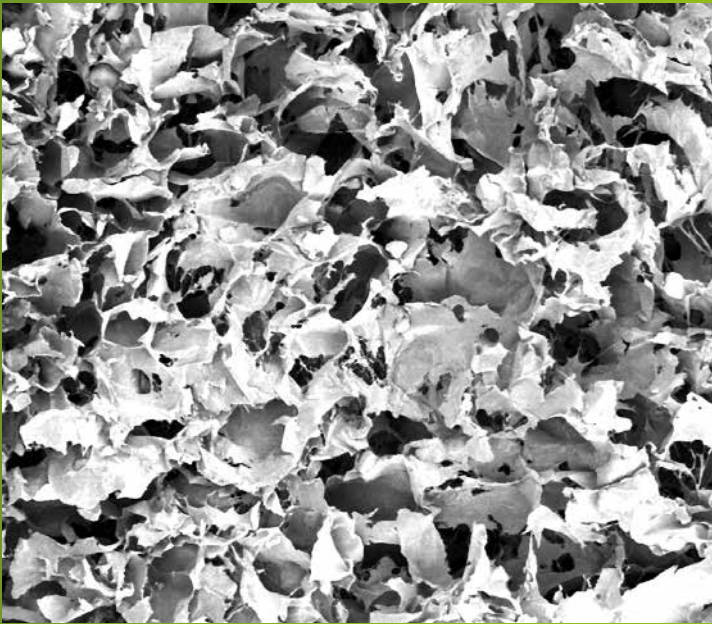
Expands to fill socket
site when hydrated



Mineral particles are
contained within
the defect site



Offered in two sizes
conveniently packaged
five plugs per box



Material Composition

- 80% Carbonate Apatite Bone Mineral
- 20% Bovine Tendon Collagen (Type I)

Shelf life

- 3 years from production

Degradation Time

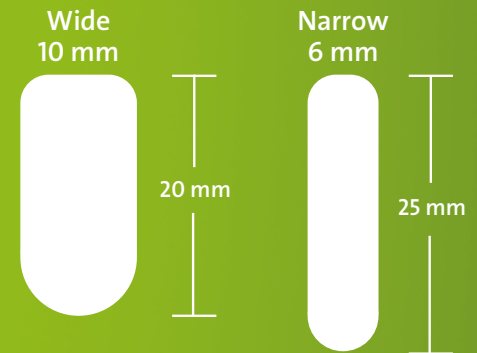
- ~9-12 months

Article #	Size	Units/box
070.051	10 mm x 20 mm	5 per box
070.052	6 mm x 25 mm	5 per box

INDICATIONS FOR USE

SocketPlug is intended for use in dental surgery for:

- Augmentation or reconstructive treatment of the alveolar ridge.
- Filling of infrabony periodontal defects.
- Filling of defects after root resection, apicoectomy, and cystectomy.
- Filling of extraction sockets to enhance preservation of the alveolar ridge.
- Elevation of the maxillary sinus floor.
- Filling of periodontal defects in conjunction with products intended for Guided Tissue Regeneration (GTR) and Guided Bone Regeneration (GBR).
- Filling of peri-implant defects in conjunction with products intended for Guided Bone Regeneration (GBR).



References:

1. Lin, H. K., Pan, Y. H., Salamanca, E., Lin, Y. T., & Chang, W. J. (2019). Prevention of Bone Resorption by HA/ β -TCP + Collagen Composite after Tooth Extraction 2019 LIN (v1.0): A Case Series. International journal of environmental research and public health, 16(23), 4616. <https://doi.org/10.3390/ijerph16234616>

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