



ZIMMER BIOMET

Your progress. Our promise.®



Biologic Solutions

Puros[®]

Demineralized Bone Matrix (DBM)

Puros DBM is engineered with Reverse Phase Medium (RPM) and includes a variety of options to meet all of your clinical needs.

Puros DBM

With a variety of options, the Puros family of products can stimulate natural bone formation and assist in the healing process. Used alone or as a bone graft extender, Puros DBM allografts provide osteoconductive and osteoinductive properties, convenient handling and graft containment, and are provided ready to use.



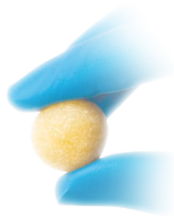
Puros DBM Block



Puros DBM Strip



Puros DBM with RPM Putty



Puros DBM with RPM Putty
with Chips

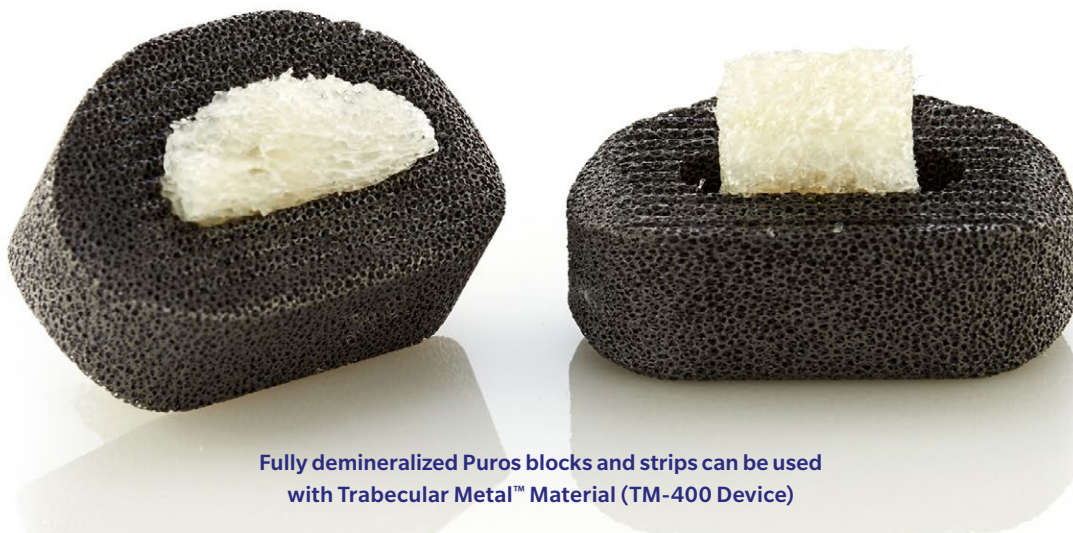


Puros DBM with RPM Gel



Puros DBM with RPM Paste

Puros DBM Block and Strip



Fully demineralized Puros blocks and strips can be used with Trabecular Metal™ Material (TM-400 Device)

Puros DBM Block and Strip are unique bone graft substitutes composed of 100% demineralized cancellous bone. Puros DBM Block and Strip cancellous bone allografts are natural scaffolds for new bone growth because they are processed to retain osteoinductive properties by preserving endogenous growth factors, including BMP-2, BMP-4 and BMP-7.¹

Puros DBM Block and Strip are available in a variety of configurations to minimize the need for shaping during the surgical procedure. They are conveniently provided sterile with up to a five-year shelf life at room temperature.

Puros Demineralized Bone Matrix Block and Strip



Puros DBM Block and Strip Product Attributes:

- Osteoconductive
- Osteoinductive properties, including endogenous growth factors BMP-2, BMP-4 and BMP-7 to help stimulate new bone formation¹
- Demineralized cancellous bone—no carrier or binding agent
- Available in a variety of sizes and shapes to reduce allograft preparation
- Flexible and compressible once rehydrated



Blood-wicking capabilities (after minimal preparation)

Puros DBM with Reverse Phase Medium Family of Products



Puros DBM with Reverse Phase Medium (DBM with RPM) Putty, Putty with Chips, Gel, and Paste are bone graft substitutes composed of demineralized bone matrix in a reverse phase medium. Puros DBM with RPM products are designed to stimulate natural bone-formation processes in which mesenchymal cells differentiate into bone-forming cells. Because the reverse phase medium becomes more viscous at warm temperatures, it allows the allograft to be malleable at operating room temperature but to stiffen when placed in the operative site. Thus, the DBM is contained at the surgical site with minimal loss through irrigation and suction.

Variability in allograft tissue is always a concern, as no two donors are alike. That is why Zimmer Biomet utilizes a highly regarded *in vivo* test to confirm the osteoinductive potential of every donor lot and ensure the ability to grow new bone. Additionally, all donor lots are tested for osteoinductive potential after sterilization.*

Puros DBM with RPM Putty and Putty with Chips Product Benefits:

- Provides a good source of osteoinductive material for fusions
- Safe and regulated
- Convenient handling and graft containment
- More viscous at body temperature
- Resists irrigation
- Donor lots are tested for osteoinductive potential after sterilization
- Puros DBM with RPM Putty with Chips contains cancellous bone chips (850 μm to 4 mm).

*Animal studies are not necessarily indicative of human clinical outcomes.

Puros DBM with Reverse Phase Medium Paste with Cancellous Bone and Gel

Puros DBM with RPM Gel and Paste Product Benefits:

- Enhances flow through syringe to fusion site
- Easily molded to desired shape
- Will not stick to surgical gloves
- Stiffens at body temperature
- Remains in surgical site
- Resists irrigation
- Puros DBM with RPM Paste with Cancellous Bone contains added ground cancellous bone (<math>< 500 \mu\text{m}</math>) to provide additional structural properties for bone growth.



Part Numbers



Puros DBM Block and Strip

DESCRIPTION, LENGTH × WIDTH × THICKNESS	PART NUMBER
Block, 12 mm × 12 mm × 12 mm	61515012
Block, 14 mm × 14 mm × 14 mm	61515014
Strip, 15 mm × 40 mm × 3 mm–6 mm	61615154
Strip, 20 mm × 50 mm × 3 mm–6 mm	61615251
Strip, 20 mm × 50 mm × 3 mm–6 mm (2-pack)	61615205



Puros DBM with RPM Putty and Putty with Chips

DESCRIPTION	PART NUMBER
Putty, 1 cc	84038001
Putty, 2.5 cc	84038002
Putty, 5 cc	84038005
Putty, 10 cc	84038010
Putty with Chips, 5 cc	84338005
Putty with Chips, 10 cc	84338010



Puros DBM with RPM Paste with Cancellous Bone and Gel

DESCRIPTION	PART NUMBER
Gel, 1 cc	84138001
Gel, 5 cc	84138005
Gel, 10 cc	84138010
Paste with Cancellous Bone, 1 cc	84238001
Paste with Cancellous Bone, 3 cc	84238003
Paste with Cancellous Bone, 8 cc	84238008



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References :

1. Shi Y, Dittman B, Atkinson B. (2011) Bone Morphogenic Protein (BMP) Content in Cancellous Bone: A Suitable Substrate For Allograft Stem Cells. AlloSource Scientific Data Series 4, 3.

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1067.1-US-en-REV0617