

Osteoconductive  
Non-toxic  
Adhesive  
Bone-like Properties  
Low Exotherm



Osteoconductive Adhesive



Doctors Research  
Group, Inc.

Kryptonite Osteoconductive Adhesive  
is not approved by the FDA.

**Kryptonite™ Osteoconductive Adhesive is non-toxic, with bone-like mechanical properties** composed of naturally occurring fatty acids and calcium carbonate. Final synthesis of Kryptonite OA simply requires mixing of three components: a prepolymer, a polyol and calcium carbonate. Kryptonite OA can be mixed and delivered by hand or utilizing a number of commercially available mixing systems. Kryptonite Osteoconductive Adhesive is not FDA approved.

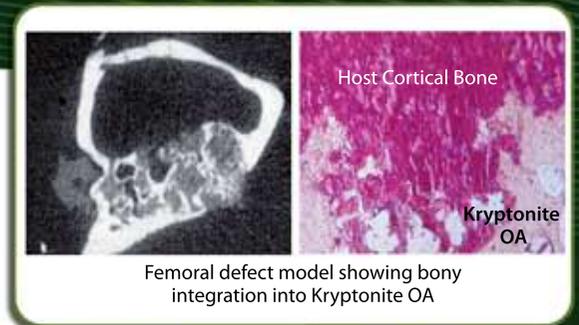


Patient presented with cranial defect after MVA. Kryptonite OA applied to defect in taffy state.



## Osteoconductive

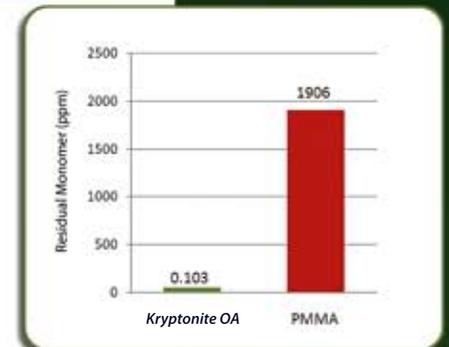
Studies demonstrate bone growth into the porous structure of Kryptonite Osteoconductive Adhesive.



Femoral defect model showing bony integration into Kryptonite OA

## Non-toxic

The biocompatibility, safety and stability of Kryptonite OA has been evaluated in accordance with FDA requirements and ISO 10993 guidelines. The product was found to be non-toxic and safe to use with no special precautions for either the patient or the operating staff.



## Adhesive

Kryptonite OA achieves a strong bond through both bony interdigitation and chemical adhesion, providing a strong interface at both macro and micro levels.



PMMA - no bond

Kryptonite OA - strong bond

## Bone-like Properties

The mechanical properties and porosity are designed to mimic natural bone.



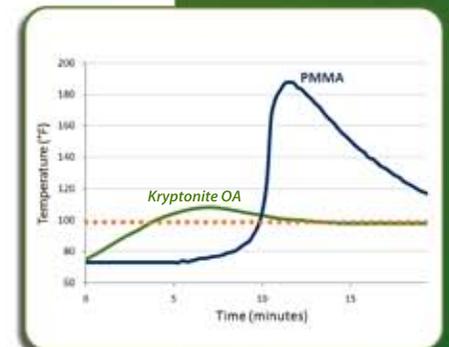
Kryptonite OA

PMMA

Specimens at ultimate compression failure

## Low Exotherm

In contrast to PMMA products, Kryptonite OA exhibits a very low exotherm throughout the curing process. PMMA can exceed temperatures of 200°F (93°C) during its curing cycle while Kryptonite OA cures at approximately 110°F (43°C). A low exotherm can substantially reduce the risk of local tissue necrosis during polymerization.





## Product Codes

### *Demo Kit*

Non-sterile 5cc sample kit    KRYP-A-3

### *Kryptonite™ Osteoconductive Adhesive*

3cc    Sterile Kit with syringe    KRYP-Z-03

10cc    Sterile Kit with syringe    KRYP-Z-10

### *Kryptonite -X™ Radiopaque*

3cc    Sterile Kit with syringe    KRYP-X-03

10cc    Sterile Kit with syringe    KRYP-X-10

Kryptonite™ Osteoconductive Adhesive (OA) has received a CE mark for distribution in Europe as a cranial bone void filler and is not intended for load bearing applications.

Kryptonite™ Osteoconductive Adhesive has regulatory clearance in Australia (TGA) and in Canada. (Health Canada Approved)

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CE  
#0413



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Contact your local rep for ordering or call 1-203-262-9335  
to find a representative near you.

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[www.KryptoniteOA.com](http://www.KryptoniteOA.com)