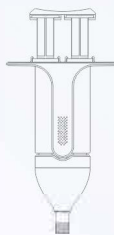


Specification

Model	DS-030	DS-040	DS-050	DS-060	DS-070	DS-080	DS-090	DS-100	
Volume	3ml	4ml	5ml	6ml	7ml	8ml	9ml	10ml	

Immiseal™
Dural Sealant System

- Quick gel-forming
- Absorbable
- Low swelling ratio
- Easy application
- Water-tight seal
- Shorter surgery time





Immiseal™ dural sealant system is an absorbable synthetic sealant, applied as an adjunct to duraplasty repair such as suturing or onlay of autologous dura or non-autologous dural patch. The application of the Immiseal™ could prevent CSF leakage from incisions and provides a barrier to minimize dural adhesion with minimum swelling.

Immiseal™ is composed of activated polyethylene glycol (PEG) and amino polymers, mixing of these materials and water will result in crosslinking and formation of a hydrogel.

Quick gel-forming



Quick gel-forming in less than
3 SECONDS

Degrade within 3 months

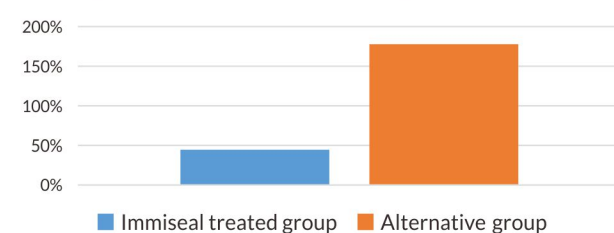
Pre-clinical study shows Immiseal™ slowly degrades over approximately 3 months.

Lower swelling ratio

Allows for use in confined space, to prevent mass effects and avoid compression of brain tissue.

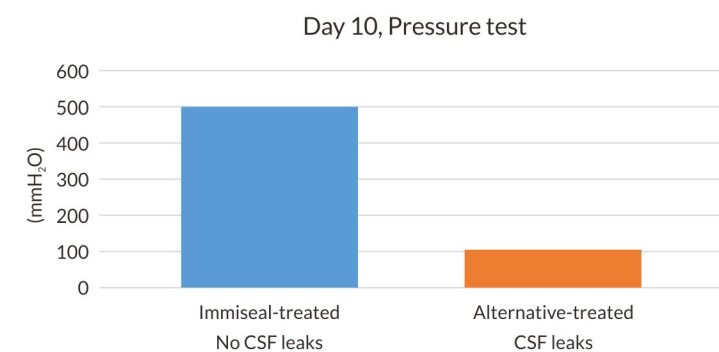
Swelling ratio of Immiseal™ is lower than 45% judged by the weight of absorbed water.

Swelling ratio determined by the weight of absorbed water



Prevent CSF leakage

Pressure tests were performed in pre-clinical canine model of cranial surgery. Immiseal™ exhibited strong tissue adhesion to provide a mechanical CSF barrier.



At 10 days post-surgery, Immiseal - treated group provided a 100% water-tight closure when the intracranial pressure(ICP) was increased to 500 mmH₂O by injecting normal saline, while CSF leakage occurred in alternative-treated group when ICP increased to 102 mmH₂O.

Easy surgical handling



The injection syringe is assembled before use, which greatly simplify the procedures.

Step 1

Connect two bottles to the connector, and push-and-pull several times to mix the materials.



EASY TO USE

Step 2

Remove the bottles, and the sealant system is all set.