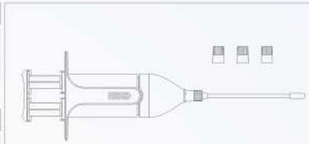
Specification

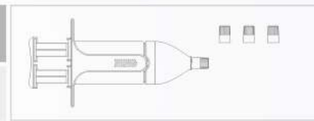
Model	DS4A-050	DS4C-050	DS4E-050	DS4A-060	DS4C-060	DS4E-060
Volume	5ml			6ml		
Length of the tips	5cm	10cm	15cm	5cm	10cm	15cm
Model	**DS4A-080**	**DS4C-080**	**DS4E-080**	**DS4A-100**	**DS4C-100**	**DS4E-100**
Volume	8ml			10ml		
Length of the tips	5cm	10cm	15cm	5cm	10cm	15cm



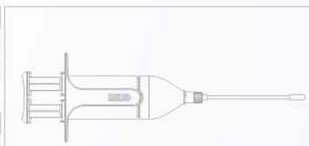
Model	DS2A-050	DS2C-050	DS2E-050	DS2A-060	DS2C-060	DS2E-060
Volume	5ml			6ml		
Length of the tips	5cm	10cm	15cm	5cm	10cm	15cm
Model	**DS2A-080**	**DS2C-080**	**DS2E-080**	**DS2A-100**	**DS2C-100**	**DS2E-100**
Volume	8ml			10ml		
Length of the tips	5cm	10cm	15cm	5cm	10cm	15cm



Model	DS-050	DS-060	DS-080	DS-100
Volume	5ml	6ml	8ml	10ml



Model	DSA-050	DSC-050	DSE-050	DSA-060	DSC-060	DSE-060
Volume	5ml			6ml		
Length of the tips	5cm	10cm	15cm	5cm	10cm	15cm
Model	**DSA-080**	**DSC-080**	**DSE-080**	**DSA-100**	**DSC-100**	**DSE-100**
Volume	8ml			10ml		
Length of the tips	5cm	10cm	15cm	5cm	10cm	15cm



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Immiseal™

Dural Sealant System



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



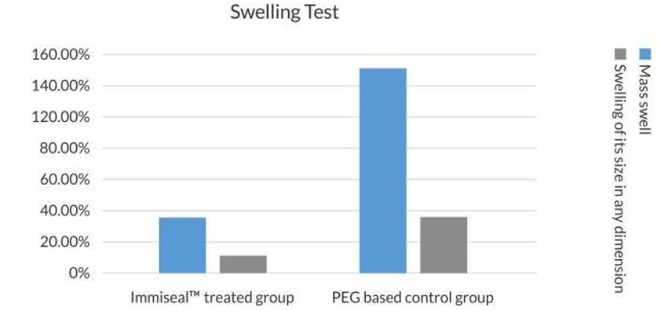
Immiseal™ dural sealant system is an absorbable synthetic sealant, applied as an adjunct to duraplasty repair such as suturing or onlay of autologous dura or non-autologous dural substitute. The application of the Immiseal™ could prevent CSF leakage from incisions and provides a barrier to minimize dural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

Immiseal™ is composed of synthetic materials. Upon mixing these materials with water, electrophilic and nucleophilic reactions would occur, leading to the formation of a hydrogel.

Lower swelling ratio

Reduces mass effects thus compression of brain tissue.

Raw material - lower molecular weight which presents lower swelling ratio than the other PEG based product.



Mass swelling ratio of Immiseal™ is lower than 40% judged by the weight of absorbed water.

Degradation within 21 days

Pre-clinical study shows Immiseal™ degrades approximately within 21 days, which meets the clinical need of cranial closure and prevents long-term mass effect to promote tissue regeneration.

Quick gelation

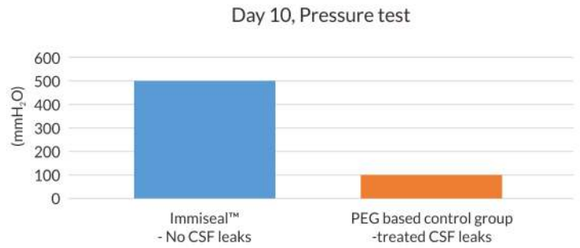


Quick gel-forming within

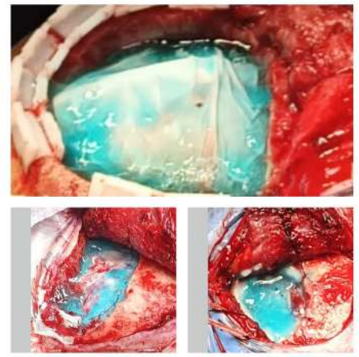
SECONDS

CSF leakage prevention

Pressure tests were performed in pre-clinical canine model of cranial surgery. Immiseal™ exhibited strong tissue sealing 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 mmH_2O by injecting normal saline, while CSF leakage occurred in alternative-treated group when ICP increased to 102 mmH_2O.



Applied in tumor resection surgeries

Clinical trial - CSF leakage prevention rate at post-operation 7±3 days

	PPS
Parameter	Test group
Fail number (%)	0(0.00%)
Successful number (%)	65(100.00%)
Total (Missing)	65(0)
95% CI for the rate in a single group	(94.42%,100.00%)

Note: 95% CI for the rate was calculated based on Wilson score.

Easy surgical handling



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



Step 1

Connect two vials to the syringes, and shake several times to mix the materials.



EASY TO USE

Step 2

Remove the vials, install the applicator, and the sealant system is all set.

Skip the thawing process

Immiseal™ stored below 30℃/86℉, ready for any urgent situation