## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Metric Dimensions</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDS-1</td>
<td>15mm x 20mm</td>
<td></td>
</tr>
<tr>
<td>RDS-2</td>
<td>20mm x 20mm</td>
<td></td>
</tr>
<tr>
<td>RDS-3</td>
<td>30mm x 30mm</td>
<td></td>
</tr>
<tr>
<td>RDS-4</td>
<td>40mm x 40mm</td>
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<tr>
<td>RDS-5</td>
<td>50mm x 50mm</td>
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<tr>
<td>RDS-6</td>
<td>60mm x 60mm</td>
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</tr>
<tr>
<td>RDS-7</td>
<td>60mm x 140mm</td>
<td>0.1–0.5mm</td>
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<tr>
<td>RDS-8</td>
<td>60mm x 80mm</td>
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<tr>
<td>RDS-9</td>
<td>80mm x 120mm</td>
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<td>RDS-10</td>
<td>100mm x 150mm</td>
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<tr>
<td>RDS-11</td>
<td>150mm x 150mm</td>
<td></td>
</tr>
</tbody>
</table>

## REFERENCES

- Development of Novel Nanofibrous Dural Substitute for Dural Defect Repair. The 14th World Federation of Neurosurgical Societies Interim Meeting, Pernambuco, Brazil, 2011.
**ReDura**™ is manufactured with FDA-approved degradable material poly-L-lactic acid which has been extensively tested to prove the biocompatibility and non-toxicity. The product exhibits excellent prevention of CSF leakage and tissue adhesion, regenerating the dural defect in the process. ReDura™ is fully degradable and absorbable 1 year post implantation, leaving no foreign body in-situ and is replaced by regenerated dura tissue. ReDura™ has been widely used in clinical practice and demonstrates outstanding efficacy and safety for the repair of the dural defect.

**CSF Impermeability**

ReDura™ is hydrophobic with more than 90° contact angle which acts as a watertight barrier for the prevention of cerebrospinal fluid (CSF) leakage. It attains a favourable dural closure. Preventing common complications associated with CSF leakage.

- **ReDura™ of > 90° contact angle with hydrophobic surface property**
- **No liquid leakage using ReDura™**

**High Strength and No-swelling**

ReDura™ achieves excellent tensile strength, strong enough for positioning or repositioning of the product during operative handling. The biomaterial does not swell and can be easily unfolded after hydration without tearing.

- **Excellent Strength of ReDura™**
- **Before hydration (0.215mm)**
- **No-swelling after hydration (0.206mm)**

**Excellent Conformity**

ReDura™ is flexible and conforms to the contours of the brain very well after hydration, without foreign body sensation to the patient.

- **Good conformity of ReDura™**
- **Native dura**
- **ReDura™ resembles to the native dura**

**Rapid Repair and Regeneration**

The biomimetic structure of ReDura™ resembles to the microstructure of native dural matrix, providing an appropriate environment for dural cell growth, proliferation and migration. With such a unique feature, ReDura™ is able to repair and regenerate defective dura efficiently.

- **Microstructure of native dura**
- **Microstructure of ReDura™**
- **Cells tightly adhere to the nanofibers of ReDura™**

**Flexible Surgical Application**

With the advantage of thinness, softness and high strength, ReDura™ is easy and simple to apply with flexibility.

- **ReDura™ (4×4cm) was sutured onto the dural defect.**
- **ReDura™ (4×4cm) was applied on the dural defect flexibly.**
- **ReDura™ was applied in the repair of spinal dural defect.**

**Superior Anti-adhesion Ability**

The unique material property of ReDura™ endows the product favourable anti-adhesion ability to the surrounding tissues, which has been proved by low adhesion risk in tens of thousands of clinical application cases.