

RUSSELL CHEST SEAL®

Successful management of a hemopneumothorax with a chest seal includes two factors: First, the chest wound remains sealed with the device, and second, the increase of intra-pleural pressure is prevented. By these definitions, the Russell Chest Seal® was one of only two chest seals proven **100% effective in an open chest wound** model with active bleeding. [1]

The Russell Chest Seal is a hydrogel-based laminar dressing with an integral low-profile, four-aperture valve. Our hydrogel base is **proven effective** following storage in extreme temperatures, -20°C (-4°F) and at 50°C (122°F), demonstrating no reduction in adherence, flexibility or valve performance. [2, †]

Each design element of the Russell Chest Seal is intended to improve its performance. Its advanced hydrogel matrix is mounted on a non-woven fabric which enables a flexible and continuous adhering surface over bony prominences and naturally curving anatomy.

Finally, the Russell Chest Seal uses a silicone-coated release liner, preventing stretching and distortion of the dressing during the removal of the backing for application.

- **User-Friendly:** Fast, easy, and intuitive to apply. Large central hole in base material allows for quick, accurate placement with a reduced risk of obstructing the wound opening.
- **Compact:** Low-profile and highly flexible—easily packs into any medical kit.
- **Reliable:** Patented hydrogel base keeps the device in place over several hours, while four large peripheral apertures allow for drainage of air and blood.
- **Color-Coded:** Simplifies emergency medicine, enabling all responders to select the right product, for the right intervention, at the right time.

Single-Pack Specifications

PN	**PDF0680**
Packaged size	**5.9" x 5.1"** (15 x 13cm)
Product size	**8" x 6"** (20.3 x 15.2cm)
Weight	**1.5oz** (42.5g)
Shelf life*	**4 years**
Compliance	**Berry Compliant**

Twin-Pack Specifications

PN	**PP0068**
Packaged size	**5.9" x 5.1" x 0.6"** (15 x 13 x 1.5cm)
Product size (x2)	**8" x 6" x 0.3"** (20.3 x 15.2 x 0.75cm) **each**
Weight	**3.2oz** (90g)
Shelf life*	**5 years**
Compliance	**BAA Compliant**

1. Kheirabadi, Bijan Shams, et al. "Do Vented Chest Seals Differ in Efficacy? an Experimental Evaluation Using a Swine HEMOPNEUMOTHORAX Model." Journal of Trauma and Acute Care Surgery, vol. 83, no. 1, 2017, pp. 182–189., https://doi.org/10.1097/ta.0000000000001501. | 2. Real, K. (2023) Russell Chest Seal Performance at Extreme Temperatures (Report No. IRR2401) [Unpublished Internal Report]. Safeguard Medical Technologies.
† Claim applies only to PDF0680 | *From date of manufacture | Devices included in this document may not be cleared or licensed for use or sale in your individual country. Contact your local distributor for availability.
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