



# RUSSELL CHEST SEAL®

Successful treatment 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.<sup>1</sup>

The Russell Chest Seal is a hydrogel-based laminar dressing with an integral low-profile, four-aperture valve. Our hydrogel base is proven effective in extreme temperatures, demonstrating no breaches in adherence when tested at -19.5°C (-3.1°F) and at 71.5°C (160.7°F); even in the presence of hair, blood, and sand.<sup>2</sup>

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.

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. Arnaud, Françoise, et al. "Adherence Evaluation of Vented Chest Seals in a Swine Skin Model." Injury, vol. 47, no. 10, 2016, pp. 2097-2104., <https://doi.org/10.1016/j.injury.2016.05.041>.



**USER-FRIENDLY DESIGN:** 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.

SPECIFICATIONS	
PN	PDF0680
Packaged dimensions	5.5" x 5" (14 x 12.7cm)
Product dimensions	8" x 6" (20.3 x 15.2cm)
Weight	0.7oz (19.8g)
Shelf life*	4 years
Misc.	Berry Compliant

\* From date of manufacture