



## HIGH-STRESS COLLAPSIBLE WATER BAG (HSCWB)

### SUMMARY:

The HSCWB is designed to reduce cube storage volume inside infantry patrol vehicles while maintaining the overall quality of the water being stored. The 5-gallon water container currently used by the Armed Services was redesigned in 1966 to allow for plastic construction, and has served the Armed Services for more than four decades. However, with today's demand in the field to reduce logistics and improve systems or component effectiveness, the 5-gallon water container needs to better suit the needs of the Warfighter.

### WHY IS IT NEEDED:

The current 5-gallon water container has very poor pouring characteristics leading to significant potable water loss and is susceptible to damage during resupply airdrops. It is difficult to clean and sanitize because of the one cap opening, which leads to bacterial growth and is a high logistical burden when carrying water into battle.

The HSCWB will greatly enhance the Warfighter's effectiveness by upgrading the logistical capabilities of transporting water without limiting the resources required to fully support long-range patrols. Its decreased cubic volume will allow for easier packing of mission-essential materiel (weapons and ammunition), which will translate to increased storage space during transportation.

### TECHNOLOGY:

The HSCWB has a cover cap-sealing feature that prevents dirt from hindering the seal and contaminating the water as well as making the bag easier to sanitize. The bag is more physically robust than the current 5-gallon plastic water containers to prevent damage during quick airdrop techniques from short heights at low speeds. To prevent water from being wasted, a new nozzle feature has been incorporated to improve the pouring and filling, as well as modified handles to support a cargo strap for transportation. The 1050 denier ballistic Nylon material coated with FDA approved silicone rubber on both sides takes advantage of the silicone rubber interior to eliminate film growth and leaching at high temperatures. Furthermore, the quality of water will not be sacrificed and would remain safe for consumption, allowing the Warfighter to be more effective by decreasing the risks associated with using local water in remote and undeveloped areas.

### TECHNICAL SPECIFICATIONS:

- **Airdrop Capability:** 37 Feet
- **Weight:** 2.8 Pounds
- **Volume:** 5 Gallons

**UNCLASSIFIED**





### CONSTRUCTION FEATURES:

- Silicon/Nylon weave construction improves water taste and provides high abrasion resistance
- Integrated shoulder straps, dual handles, and grommets for hanging
- Flexible construction material allows the HSCWB to be rolled for improved stowage

### APPLICATIONS:

Designed for all Armed Services

### POINT OF CONTACT:

#### DoD Combat Feeding Directorate

Phone: COMM (508) 233-4670, DSN 256-4670

E-Mail: [usarmy.natick.nsrdec.mbx.nati-amsrd-nsc-cf@mail.mil](mailto:usarmy.natick.nsrdec.mbx.nati-amsrd-nsc-cf@mail.mil)

Website: [hotchow.natick.army.mil](http://hotchow.natick.army.mil)



HSCWB Air Dropped