



# TEX SHIELD

CBRN PROTECTION

HAMMER Chemical Warfare  
Protective Overgarment

**SARATOGA®**

2300 M Street N.W., Suite 800 • Washington, DC 20037  
(202) 973-2858 • Fax: (202) 973-2850 • [info@tex-shield.com](mailto:info@tex-shield.com)





# SARATOGA®

## HAMMER Chemical Warfare Protective Overgarment

**The most trusted chemical protective technology in the world.**

The SARATOGA HAMMER Suit® is a lightweight, chemical warfare protective overgarment, consisting of a coat with integral hood and separate trousers. The suit incorporates a two-layer fabric system, consisting of a proprietary liquid-repellent nylon/cotton outer shell fabric and a SARATOGA® carbon sphere liner.

### HAMMER Suit Program History

The SARATOGA HAMMER Suit® was developed at the request of a federal law enforcement agency familiar with the superior performance of the SARATOGA® JSLIST Suit — the only chemical protective overgarment qualified for use by the U.S. Department of Defense.

It is produced in the same battle-tested, two-piece configuration as the JSLIST Suit, but in navy blue color, with hook and loop fastener tape on the chest and sleeve shoulders for the placement of department identification patches. It is also produced as a one-piece coverall to meet the special needs of some first responders.

Since its introduction in 1998, the SARATOGA HAMMER Suit® has been widely accepted by U.S. federal, state and local agencies to meet the needs of first responders for protection from chemical warfare agents. It was worn by the international weapons inspectors in Iraq, and is the most highly regarded suit of its kind around the world.

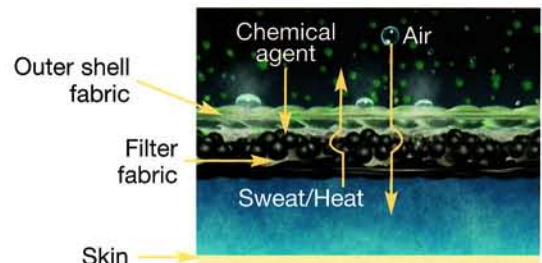
The SARATOGA HAMMER Suit® meets or exceeds the level of protection from chemical warfare agents specified in MIL-C-29462. Product testing with live chemical warfare agents at world-renowned independent test facilities validates the reliability of the SARATOGA® fabric.



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- Advanced protection
- Lightweight
- Breathable
- Low heat stress
- Excellent durability
- Liquid repellent
- Launderable
- Extended shelf life
- 24-hour wear-time after contamination



#### SARATOGA® fabric system:

The air permeable SARATOGA® fabric system permits free movement of air into and out of the protective garment. This allows heat to dissipate while chemical warfare agents are adsorbed into the carbon filter fabric.

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# SARATOGA®

## JSLIST Chemical Warfare Protective Overgarment

**The ONLY technology approved by the U.S. Department of Defense for chemical warfare overgarments.**

The SARATOGA® JSLIST SUIT is a lightweight, two-piece overgarment consisting of a coat with integral hood and separate trousers. The suit incorporates a two-layer fabric system consisting of a proprietary liquid repellent nylon/cotton outer shell fabric and a SARATOGA® carbon sphere liner. The two-layer system provides protection against all classes of chemical warfare vapors, liquids and aerosols. It is available in woodland, desert and universal camouflage.



### JSLIST Program History

Testing for the Joint Service Lightweight Integrated Suit Technology (JSLIST) was conducted in 2 phases, and resulted in the selection of the only material approved for use in the Department of Defense's chemical defense overgarments.

**Phase I:** 57 different fabric combinations from 13 companies were tested for: chemical agent penetration; aerosol penetration; heat stress; launderability; wear tests; suit design evaluation; physical properties; user size and fit. Of the 57 material candidates, only 5 qualified for Phase II: Testing under actual battlefield conditions.

**Phase II:** The remaining 5 material candidates were further tested at 10 worldwide field locations, using mission-oriented scenarios and individual user tasks. Arctic, tropic and desert environmental conditions were represented during the tests. The wear periods were 7, 15, 30 and 45 days, and suits were laundered up to 6 times.

**Results:** Only one material combination was found to meet all program requirements—the SARATOGA® JSLIST suit.

- Lightweight
- Breathable
- Low heat stress
- Excellent durability
- Liquid repellent
- Launderable
- Extended shelf life
- 24-hour wear-time after contamination



The unique Saratoga® carbon bead liner material offers U.S. troops "unparalleled protection against chemical and biological agents."

Office of the Deputy Secretary of Defense for Industrial Policy (Jan. 2004)

**The ONLY** suits worn into battle by U.S. troops in Operation Iraqi Freedom

**The ONLY** technology to meet the requirements of the Department of Defense in 3 consecutive, multi-year qualification programs

**The ONLY** suit that meets or exceeds the requirements of MIL-DTL-32102A

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