



## Demron(TM) Radiation Shielding Garment (United States), Protection (Individual) - Body protection

### Type

Body Protection - Individual protection

### Development

The Demron(TM) was initially developed to protect medical personnel in hospital facilities that was exposed regularly to x-rays or nuclear material. Following the formation of the Radiation Shield Technologies (RST) and an 8 year research project, the RST team realised that the Demron(TM) can not only impede x-rays and nuclear emissions (gamma ((gamma)) - rays, alpha ((alpha)) and beta ((beta)) particles) but it is also impermeable to chemical and biological warfare agents. The uniqueness of the suit is the fact that it has not been developed according to the usual lead-based formula which poses environmental and biological dangers but it applies a non-toxic, lightweight nanotechnology which is specifically designed to offer protection against dirty bombs or any other radiological dispersal devices (RDDs) and ionizing radiation. The Demron(TM) personal radiation garments have been tested by the Department of Homeland Security's Nuclear Weapons Lab (Lawrence Livermore National Laboratory (LLNL)), United States, and comply to the NFPA 1994 requirements, Standard for Protective Ensemble for Biological / Chemical Terrorism Incidents, 2001 edition. In 2008, it was announced that Radiation Shield Technologies enhanced the initial Demron(TM) technology by introducing the new Demron-W, which provides an integrated protection towards all CBRN threats. The improved variant has been tested according to the Class 2 NFPA 1994-2007 Standards on Protective Ensembles for first responders in CBRN Terrorism Incidents. The certification was awarded by the Underwriters Laboratories (UL).

### The complete article appears in the following publication:

<b>Publication Title</b>	Jane's Nuclear, Biological and Chemical Defence
<b>Publication date</b>	Sep 25, 2008
<b>Section</b>	Protection (individual) - Body protection
<b>Publication synopsis</b>	Jane's Nuclear, Biological and Chemical Defence offers both expert analysis of the NBC threat and comprehensive details on the manufacturers and their products involved in meeting that threat. It is ideal for providing guidance for threat assessment and for the procurement of defensive equipment identified as a requirement. Equipment entries include detailed descriptions, including specifications, together with availability status, manufacturer details and pictures or diagrams to enable comparison and appraisal. Key Contents relating to the threat include: Know your enemy: A global, country-by-country review of NBC capabilities Know their arsenal: NBC agents and their effects Know your own response options: Technical developments in the NBC field
<b>The depth and breadth of information covers</b>	<ul style="list-style-type: none"> <li>Manufacturers and products associated with detection, including sensor systems, C3I and reconnaissance systems</li> <li>Individual and collective protection</li> <li>Decontamination</li> <li>Demilitarisation</li> <li>Training and simulation</li> <li>A comprehensive list of contractors</li> </ul>
<b>Different sections provide in-depth detail covering</b>	<ul style="list-style-type: none"> <li>Analysis</li> <li>Biological Warfare</li> <li>Biological Warfare - Bacteria</li> <li>Biological Warfare - Fungi</li> <li>Biological Warfare - Rickettsiae</li> <li>Biological Warfare - Toxins</li> <li>Biological Warfare - Viruses</li> <li>Chemical Warfare</li> <li>Chemical Warfare - Blister Agents Vesicants</li> <li>Chemical Warfare - Blood Agents</li> <li>Chemical Warfare - Choking Agents</li> <li>Chemical Warfare - Incapacitating Agents</li> <li>Chemical Warfare - Nerve Agents</li> <li>Chemical Warfare - Precursors</li> <li>Chemical Warfare - Tear Agents</li> <li>Chemical Warfare - Vomiting Agents</li> <li>Contractors</li> <li>Decontamination</li> <li>Demilitarisation</li> <li>Detection (C3I Systems)</li> <li>Detection (Reconnaissance Systems)</li> <li>Detection (Sensor Systems) - Biological</li> <li>Detection (Sensor Systems) - Chemical</li> <li>Detection (Sensor Systems) - Nuclear</li> <li>Glossary</li> <li>Nbc Capabilities</li> <li>Nuclear Weapons And Their Effects</li> <li>Protection (Collective)</li> <li>Protection (Individual) - Body Protection</li> <li>Protection (Individual) - Filters</li> <li>Protection (Individual) - Masks (Aircrew)</li> <li>Protection (Individual) - Masks (General Issue)</li> <li>Protection (Individual) - Medical Countermeasures</li> <li>Radiological Weapons And Their Effects</li> <li>Technical Developments</li> <li>Training And Simulation</li> </ul>

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