

# DEMRON™

## W CBRN ENSEMBLE



## The Only True Anti-Nuclear, CBRN with Self-Cooling Stealth Technology

The only CBRN multi-hazard suit with true anti-nuclear protection. Demron™ is the only CBRN fabric that offers true resistance against Radiological and Ionizing Nuclear Radiation.

The Demron™ Radiation Protection Suit was engineered to provide **universal protection against chemical, biological, non-ionizing radiation, and ionizing radiation.** Demron™ reduces heat stress by allowing better heat dissipation than any other impermeables. According to Lawrence Livermore National Defense Laboratory, the suit is an excellent shield of high energy beta particles, such as those emitted from Strontium-90, and provides at least 50% shielding of gamma rays up to 130 KeV.

Other BC suits are heat sinks. With very little activity, heat will build up in the suit and it will continue to climb at rest. Because they are insulating, they cannot be cooled externally. Only the Demron™ suit reduces heat stress production, passively cools, and the first responder can be externally cooled without the need to be de-gowned.

### Standard Features

- Full chemical and biological resistance
- CBRN heat sealed seams
- CBRN zipper
- Self-cooling
- Reduces IR detection
- Built-in booties and gloves
- CBRN face seal

### Options and Accessories

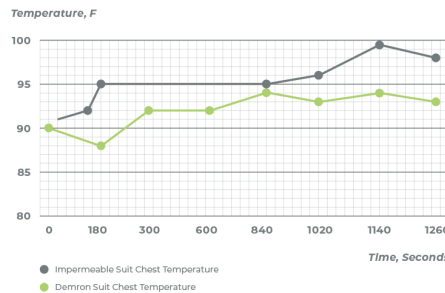
- CBRN mask, gloves and boots



Source	Type	Energies	Dose Reduction (%)
50 kvp	X-ray	50 kv	≥ 75%
75 kvp	X-ray	75 kv	≥ 60%
100 kvp	X-ray	100 kv	≥ 60%
<sup>241</sup> Am	Gamma (γ)	4.9% 20.8 KeV	≥ 85%
		13.3% 13.9 KeV	
		19.3% 17.8 KeV	
		35.7% 59.54 KeV	
<sup>109</sup> Cd	Gamma (γ)	22 KeV Major	≥ 91%
		88 KeV Minor	
<sup>137</sup> Cs	Gamma (γ)	0.662 MeV	~ 1%
<sup>60</sup> Co	Gamma (γ)	1.173 MeV	≤ 1%
		1.332 MeV	
<sup>90</sup> Sr/ <sup>90</sup> Y	Beta (β)	546 KeV (sr)	75%
		2.27 MeV (γ)	

### Full Body Suit Heat Stress Temperature Comparison

Each suit was worn on a treadmill at 3.5 mph for 10 min (600sec) and allowed to passively cool at amb T



### Full Body Suit Showing Active External Cooling Capability Comparison

Each suit was worn on a treadmill at 3.5 mph for 3 min and then actively cooled with a wet t-shirt and fanned at 25 mph. The water temp on t-shirt was 74 F.

