



SEYNTEX

PROTECTION • PRECISION • PASSION



CBRN

GARMENT SOLUTIONS



Seyntex, a global leader in CBRN protective suits, designs advanced ensembles considering the

latest threats, comfort, and user-friendliness Seyntex tailors garments to customer needs, offering optimal solutions and a range of cutting-edge CBRN Protection Solutions with a myriad of options.

Seyntex follows NATO CBRN standards as its references. AEP 38 is followed for standard CBRN protection suits whereas AEP 85 is followed for low burden CBRN protection suits. The other standards that are referred in AEP 38 and AEP 85 are also followed to ensure the requested level of protection (i.e., AEP 52, AEP 72). CBRN garments are 100% made in Europe, at our own production facility, which is fully ISO 9001 and ISO 14001 certified, guaranteeing full traceability from start to finish. Seyntex production facilities work continuously in line with the requirements of SA8000 standards. As well as manufacturing CBRN Garments, Seyntex can deliver TOTAL CBRN Protective Solutions ranging from Respirators, Gloves and Overboots.

Seyntex offers two core models of CBRN protective suits: CBRN coverall suit and a CBRN 2-piece suit, in addition Seyntex also designs & manufactures CBRN Under Garments. Seyntex provides tailored design solutions for its customer based on their needs and requirements.

Examples of which are below:



- Respirator and hood integration (fixed/adjustable/detachable/balaclava type)
- Extra protective design features (inner cuffs at arm/leg openings, inner/outer flaps)
- Accessories (various zippers/buttons/cords)
- Extra protective layers (aerosol barrier, selection of various filters)

PERFORMANCE AND COMFORT



Performance Characteristics:

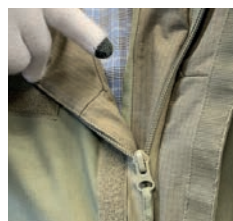
- Minimum 24 hours of protection against 10 g/m² liquid HD
- Minimum 6 hours of protection against 11 mg/m³ vapour HD
- Blocking over 95% of aerosol particles (radiological, biological, opioids) between 0,2-3 µm size
- Can be stored up 10 years in its original package
- Can be worn up to 30 days in uncontaminated environment
- Can be washed minimum 6 times at 40°C

The comfort of the CBRN suit is critical to our End User. Seyntex is constantly refining design solutions that will enable comfort and functionality. The materials Seyntex use and are developing are at the cutting edge of the technology spectrum all with the aim of enhancing the End User's comfort, whilst maintaining best of class protection from the CBRN Threat.

Seyntex monitors the following parameters in order to ensure End User Comfort:

- Evaporative (water vapor) resistance (Ret) – 6/8 m².Pa/W
- Thermal resistance (Rct) – 0,035/0,050 m².K/W
- Heartbeat monitoring – max 140 beats/min *
- Sweat loss monitoring – less than 1 kg *
- Core body temperature monitoring – max 37,9°C *
- Psychological strain index (PSI) – low to moderate *
- Thermal Mannequin – 0,18 / 0,27 m².K/W *
- Air permeability

* Values are Subject to Design Criteria



STRUCTURE

Outer/Intermediate Fabric:

Composition (various options available):

- Cotton / PES / PA / Aramid / Anti static.
- Water/oil repellent
- Air permeable
- Light weight
- Flame retardant

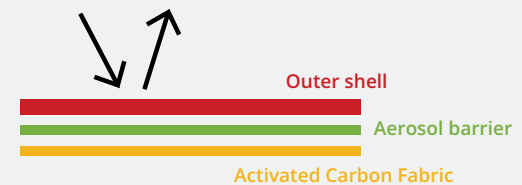
Aerosol barrier

- Composition: PP, PU
- Air permeable
- Wash durable
- Antimicrobial/antiviral
- Medium level oil repellent

Filter Fabric Solutions:

- **Medium Weight Solutions:**
 - Activated Carbon Powder impregnated filter fabric
- **Lighter-medium Weight Solutions:**
 - Activated Carbon Spheres impregnated filter fabric
- **Light Weight Solutions:**
 - Activated Carbon Fabric (ACF)

CWAs, TICs, Nuclear dust



Seyntex
corporate video

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