

Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Market to Reach \$14.47 Billion by 2029

TBRC's Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Global Market Report 2025 – Market Size, Trends And Global Forecast 2025-2034

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Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Global Market Report 2025

How Big Is The Chemical, Biological, Radiological, And Nuclear [\(CBRN\) Protective Equipment Market](#) In 2025?

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The market size for Chemical, Biological, Radiological, and Nuclear (CBRN) protective equipment has seen vigorous growth in the past few years. The projected growth is from \$9.76 billion in 2024 to \$10.59 billion in 2025, estimated at a Compound Annual Growth Rate (CAGR) of 8.5%. Factors contributing to this rise in the past period include a surge in global defense expenditure, escalating terror threat, an increase in safety consciousness at workplace, ongoing military modernization initiatives, an upsurge in incidents involving hazardous materials, and growing funding towards emergency readiness and disaster management

strategies.

Expectations are high for robust growth in the chemical, biological, radiological, and nuclear (CBRN) protective equipment market in the coming years. With a projection to reach \$14.47 billion in 2029, the compound annual growth rate (CAGR) is set at 8.1%. This increase in the predicted period is due to factors such as the thriving adoption of next-generation protective

suits, escalated investment in biodefense and homeland security, burgeoning demand in healthcare and emergency services, the rising emphasis on lightweight and long-lasting protective gear, and the continued development of smart and sensor-integrated equipment. Trends to look out for during the forecast period involve progress in nanomaterial-based protective fabrics, advancements in wearable sensor-enabled protective gear, the introduction of AI and IoT in detection and monitoring systems, growth in lightweight and ergonomic suit designs, and ingenious inventions in multi-threat protective solutions.

Download a free sample of the chemical, biological, radiological, and nuclear (cbrn) protective equipment market report:

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What Are The Key Driving Factors For The Growth Of The Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Market?

The anticipated escalation in terrorist threats is projected to fuel the expansion of the chemical, biological, radiological, and nuclear (CBRN) protective equipment market. These threats are characterized by potential violent activities or intimidation intended to incite fear and achieve political, ideological, or religious gains. The increase in terrorist threats is attributed to the rise in online radicalization, wherein extremist groups leverage social media and digital platforms to enlist new members, disseminate propaganda, and strategize their attacks. CBRN protective equipment provides a shield against these threats by safeguarding individuals from damaging chemical, biological, radiological, or nuclear substances. This enables them to safely operate in contaminated settings and substantially reduces the risk of injury or exposure. For example, Vision of Humanity, an NGO from the USA, reported in February 2024 that deaths due to terrorism surged by 22%, hitting 8,352 in 2023, while antisemitic incidents in the US spiked by 200% in 2024. Consequently, the escalating nature of terrorist threats is catalyzing the expansion of the chemical, biological, radiological, and nuclear (CBRN) protective equipment market.

Who Are The Key Players In The Chemical, Biological, Radiological, And Nuclear [\(CBRN\) Protective Equipment Industry?](#)

Major players in the Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Global Market Report 2025 include:

- Thales Group
- Leidos Holdings Inc.
- Battelle Memorial Institute
- Smiths Detection Group Limited
- Bruker Corporation
- QinetiQ Group Plc
- MSA Safety Incorporated
- Rheinmetall Defence AG
- Chemring Group Plc
- HDT Global Inc.

What Are The Key Trends And Market Opportunities In The Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Sector?

Key industry players in the chemical, biological, radiological, and nuclear (CBRN) protective gear market are channeling their efforts towards the innovation of advanced solutions, like lightweight integrated protective suits. These are designed to improve ease of movement, lessen operator exhaustion, and heighten mission effectiveness in risky conditions. These lightweight integrated suits are specifically tailored protective outfits for defense against chemical, biological, radiological, and nuclear (CBRN) risks. They are substantially lighter and more user-friendly than conventional suits, promising enhanced mobility and decreased wear and tear. In a notable development in February 2024, Avon Technologies Plc, a British aerospace and defense firm, unveiled the EXOSKIN-S1 CBRN protective suit. This suit facilitates 24 hours of uninterrupted chemical, biological, radiological, and nuclear (CBRN) protection, guaranteeing the highest level of operational safety in hazardous settings. Weighing 30% lighter than conventional suits, it mitigates weariness and augments mobility. Additionally, it is fully integrated with gloves, boots, and respiratory systems to offer comprehensive head-to-toe protection.

What Segments Are Covered In The Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Market Report?

The chemical, biological, radiological, and nuclear (CBRN) protective equipment market covered in this report is segmented

- 1) By Type: Suits, Masks, Respirators, Gloves, Boots
- 2) By Detection Equipment: Chemical Detectors, Biological Detectors, Radiological Detectors, Nuclear Detectors, Multi-Detection Systems
- 3) By Material: Nomex, Kevlar, Activated Carbon, Tyvek, Butyl Rubber
- 4) By Distribution Channel: Online Retail, Offline Retail, Direct Sales, Distribution Partners
- 5) By Application: Defense And Security, Public Safety, Industrial Hazards, Medical And Scientific Research, Hazardous Waste Management

Subsegments:

- 1) By Suits: Overalls, Coveralls, Splash Suits, Fully Encapsulated Suits
- 2) By Masks: Full-Face Masks, Half-Face Masks, Escape Masks, Tactical Masks
- 3) By Respirators: Powered Air-Purifying Respirators (PAPR), Self-Contained Breathing Apparatus (SCBA), Filtering Facepiece Respirators (FFR), Supplied Air Respirators (SAR)
- 4) By Gloves: Butyl Rubber Gloves, Nitrile Gloves, Neoprene Gloves, Layered Composite Gloves
- 5) By Boots: Rubber Boots, Polyvinyl Chloride (PVC) Boots, Steel-Toe Boots, Overboots

View the full chemical, biological, radiological, and nuclear (cbrn) protective equipment market report:

<https://www.thebusinessresearchcompany.com/report/chemical-biological-radiological-and-nuclear-cbrn-protective-equipment-global-market-report>

Which Region Is Expected To Lead The Chemical, Biological, Radiological, And Nuclear (CBRN) Protective Equipment Market By 2025?

In 2024, North America held the leading position in the global market for Chemical, Biological, Radiological, and Nuclear (CBRN) protective equipment. It is predicted that the highest growth rate in this market will come from the Asia-Pacific region in the forecast period. The report provides coverage for various regions, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, as well as the Middle East and Africa.

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