

Features and Benefits of the DTAPS[®] Level C₁ Coverall Ensemble

Feature	Description	Benefit
Fully integrated and complete system	Complete system includes suit, gloves, boots, hood & respiratory system; all individual components were configured & tested together as a unified system	<ul style="list-style-type: none"> ' Satisfies operational need for safe, reliable & totally integrated system ' Allows total package procurement
Extensive suit material testing	Suit material tested against CW agents GA, GB, GD, HD, L & VX, the 21 ASTM F 1001 chemicals, plus over 200 additional chemicals	<ul style="list-style-type: none"> ' Suit material has proven chemical resistance
Suit seams testing	Suit seams tested against CW agents GB, HD, L & VX	<ul style="list-style-type: none"> ' Suit seams have proven chemical resistance ' Verifies integrity of suit seams and suit fabrication
Tested as an integrated system	Complete system yielded a good overall protection factor when evaluated with the U.S. Army man-in-simulant test (MIST) per TOP 10-2-022 and passed a modified ASTM F 1359 shower spray test	<ul style="list-style-type: none"> ' Verifies the safety & reliability of protective ensemble
Coverall design	Non-encapsulating coverall with separate splash hood	<ul style="list-style-type: none"> ' Provides better splash protection than hooded coveralls ' Provides greater freedom of head movement than other Level C suits with attached hoods
Respiratory protective system	NIOSH-approved 4 cfm FR-2 PAPR (includes full face mask, breathing hose, blower with replaceable lithium battery power pack, two multi-spectrum HEPA canisters & belt)	<ul style="list-style-type: none"> ' PAPR provides higher protection factor than APRs ' Appropriate for use in CBRN environments ' Easier to breathe than APRs ' NIOSH approval verifies safety of PAPR ' Lithium battery pack offers 15 year storage life ' Canisters are NIOSH approved for use against organic vapors, Cl₂, HCl, SO₂, NH₃, methylamine, formaldehyde, particulates (aerosols, dusts, fumes, mists, fogs, smokes), radionuclides & radon daughters ' Canisters also effective against CW/terrorist agents GB, GD, CK, CS, CN, HCN, phosgene & chloropicrin

Features and Benefits of the DTAPS® Level C₁ Coverall Ensemble (continued)

Feature	Description	Benefit
Splash hood	Splash hood is constructed of heavy-weight (11 oz/yd ²) butyl-coated nylon fabric with 30 mil stretch butyl rubber membrane insert (custom fitted to the PAPR face mask)	<ul style="list-style-type: none"> ' Hood/mask interface is liquid tight ' Splash hood can be reused many times ' Hood protects from gross liquid splash ' No taping needed
Neck dam	Coverall incorporates a close-fitting adjustable neck dam constructed of Tychem® SL	<ul style="list-style-type: none"> ' Resists vapor intrusion from the “bellows effect”
Suit closure	Liquid-resistant zipper assembly with 2-ply double splash flaps	<ul style="list-style-type: none"> ' Assembly resists vapor intrusion ' Liquid will not penetrate coverall closure assembly ' 2-ply splash flap design will not wick liquids ' No taping needed
Glove system	24 mil neoprene/butyl gloves are mechanically attached to coverall	<ul style="list-style-type: none"> ' Neoprene/butyl gloves have combined resistance to chemical warfare agents & POLs ' Glove attachment assembly is vapor & liquid tight ' Gloves are easily changed out ' Can be configured with glove liners for additional chemical resistance ' No taping needed
Booties	Integral booties and boot splash flaps incorporated into coverall	<ul style="list-style-type: none"> ' Provides vapor & liquid tight attachment to coverall ' Splash flaps prevent liquid splash from entering boots ' No taping needed
Boots	Injection molded seamless construction with steel safety toe & full steel mid-sole	<ul style="list-style-type: none"> ' Provide excellent underfoot protection ' Provide exceptional puncture resistance