

ATTACHMENT 2- sheet 2

Standards for Personal Protective Gear for First Responders

Standards for Radiation and Nuclear Detection Equipment

Manufacturer	Part number	Brief Description	Meets NIOSH Chemical, Biological, Radiological and Nuclear (CBRN) Standard for Open-Circuit Self-Contained Breathing Apparatus (December 2001).	Meets NIOSH Standard for Chemical, Biological, Radiological, and Nuclear (CBRN) Full Face piece Air Purifying Respirator (APR).	Meets NIOSH Standard for Chemical, Biological, Radiological, and Nuclear (CBRN) Air-Purifying Escape Respirator and CBRN Self-Contained Escape Respirator.	Meets NFPA 1951, Standard on Protective Ensemble for USAR Operations.	Meets NFPA 1981, Standard on Open-Circuit Self-Contained Breathing Apparatus for Fire and Emergency Services.	Meets NFPA 1991, Standard on Vapor-Protective Ensembles for Hazardous Materials Emergencies.	Meets NFPA 1994, Standard on Protective Ensembles for Chemical/Biological Terrorism Incidents.	Meets NFPA 1999, Standard on Protective Clothing for Emergency Medical Operations.	Meets ANSI N42.122 Performance Criteria for Alarming Personal Radiation Detectors.	Meets ANSI N42.33: Radiation Detection Instrumentation	Meets ANSI N42.34: Performance Criteria for Hand Held Instruments for the Detection and Identification of Radionuclides.	Meets ANSI N42.35: Evaluation and Performance of Radiation Detection Portal Monitors	Meets NFPA 1971, Standard on Protective Ensemble for Structural Firefighting and Proximity Firefighting, 2007 Edition.	Meets NFPA 1992, Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies, 2000 Edition.	Testing Operational Procedure (TOP) 9-2-501 Permeation and Penetration Testing for Impermeable Materials against Chemical Agents.	Tested per DEF Stan 33-552 Method of Test for penetration of Mustard Gas (HD).	
<b>1. Personal Protective Equipment</b> - Equipment worn to protect the individual from hazardous materials and contamination. Levels of protection vary and are divided into categories based on the degree of protection afforded. The following constitutes equipment intended for use in a chemical/biological threat environment.																			
<b>Level A:</b> Fully encapsulated, liquid and vapor protective ensemble selected when the highest level of skin, respiratory, and eye protection is required. The following constitutes Level A equipment for consideration:																			
<b>1.5 Chemical Resistant Gloves, including thermal, as appropriate to hazard</b>																			
AirBoss-Defense	0M99053-0M990536	Injected moulded Rubber Butyl Glove. Offers 24 hours of protection against CBRN agents. Can be fully decontaminated. Available in 7 sizes. Ambidextrous. Low volume packaging. Excellent physical properties.	n/a	n/a	n/a	n/a	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	24 hours of protection against all known agents	17 hours of protection against HD	
<b>1.9 Inner Gloves</b>																			
AirBoss-Defense	0B910G01	Patented Glove Liner made of Coolmax / Viscose / Lycra fibres. Ambidextrous knitted construction. Available in 3 sizes. Must be worn in conjunction with the AMG. Can be purchased separately or packed with the AMG.	n/a	n/a	n/a	n/a	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>1.11 Chemical Resistant Boots, Steel or Fiberglass Toe and Shank</b>																			
The BOSS CBRN Firefighter Boot	AirBoss-Defense	4098	Protective Boot meeting both Civil standards and Defense standards. Made from totally new AirBoss-Defense tooling to optimize comfort and fit. 20% lighter than standard firefighter boots. Kevlar/Nomex lining. Partial tibia protection. Open cell foam insulation. Black.	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	Certified By Underwriters Laboratories	24 hours of protection against all known agents	24 hours of protection against HD
<b>Level B:</b> Liquid splash resistant ensemble used with highest level of respiratory protection. The following constitute Level B equipment and should be considered for use.																			
<b>1B.5 Chemical Resistant Gloves, including thermal, as appropriate to hazard</b>																			
AirBoss-Defense	0M99053-0M990536	Injected moulded Rubber Butyl Glove. Offers 24 hours of protection against CBRN agents. Can be fully decontaminated. Available in 7 sizes. Ambidextrous. Low volume packaging. Excellent physical properties.	n/a	n/a	n/a	n/a	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	24 hours of protection against all known agents	17 hours of protection against HD	
<b>1B.9 Inner Gloves</b>																			
AirBoss-Defense	0B910G01	Patented Glove Liner made of Coolmax / Viscose / Lycra fibres. Ambidextrous knitted construction. Available in 3 sizes. Must be worn in conjunction with the AMG. Can be purchased separately or packed with the AMG.	n/a	n/a	n/a	n/a	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>1B.11 Chemical Resistant Boots, Steel or Fiberglass Toe and Shank</b>																			
The BOSS CBRN Firefighter Boot	AirBoss-Defense	4098	Protective Boot meeting both Civil standards and Defense standards. Made from totally new AirBoss-Defense tooling to optimize comfort and fit. 20% lighter than standard firefighter boots. Kevlar/Nomex lining. Partial tibia protection. Open cell foam insulation. Black.	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	Certified By Underwriters Laboratories	24 hours of protection against all known agents	24 hours of protection against HD
<b>Level C:</b> Liquid splash resistant ensemble, with same level of skin protection of Level B, used when the concentration(s) and type(s) of airborne substance(s) are known and the criteria for using air-purifying respirators are met. The following constitute Level C equipment and should be considered for use.																			
<b>1C.9 Chemical Resistant Gloves, including thermal, as appropriate to hazard</b>																			
AirBoss-Defense	0M99053-0M990536	Injected moulded Rubber Butyl Glove. Offers 24 hours of protection against CBRN agents. Can be fully decontaminated. Available in 7 sizes. Ambidextrous. Low volume packaging. Excellent physical properties.	n/a	n/a	n/a	n/a	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	24 hours of protection against all known agents	17 hours of protection against HD	
<b>1C.13 Inner Gloves</b>																			
AirBoss-Defense	0B910G01	Patented Glove Liner made of Coolmax / Viscose / Lycra fibres. Ambidextrous knitted construction. Available in 3 sizes. Must be worn in conjunction with the AMG. Can be purchased separately or packed with the AMG.	n/a	n/a	n/a	n/a	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>1C.15 Chemical Resistant Boots, Steel or Fiberglass Toe and Shank</b>																			

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The BOSS CBRN Firefighter Boot	1 AirBoss-Defense	4098	Protective Boot meeting both Civil standards and Defense standards. Made from totally new AirBoss-Defense tooling to optimize comfort and fit. 20% lighter than standard firefighter boots. Kevlar/Nomex lining. Partial tibia protection. Open cell foam insulation. Black	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	Will be certified to the NFPA 1994, 2007 Edition in September 2007	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	Certified By Underwriters Laboratories	24 hours of protection against all known agents	24 hours of protection against HD
Knapp	2 AirBoss-Defense	9750	Leather firefighter boot. 14" high. Nomex/Kevlar Lining. Crosstech membrane. Vibram outsole. Black and reflective black	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	n/a
Combat	2 AirBoss-Defense	9451	Rubber firefighter boot. 16" high. Nomex/Kevlar lining. Moulded Tractor outsole. Black and Yellow. Partial tibia protection.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	n/a
Hero	2 AirBoss-Defense	9301	Rubber firefighter boot. 16" high. Wool/Fat lining. Moulded Tractor outsole. Black and Yellow. Partial tibia protection.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	n/a
Elite	2 AirBoss-Defense	9471	Rubber firefighter boot. 16" high. Nomex/Kevlar lining. Moulded Tractor outsole. Black and Yellow. Full tibia protection.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	n/a
Hip Boot	2 AirBoss-Defense	4075	Rubber firefighter boot. 30" high. Felt lining. Moulded Tractor outsole. Black and Yellow. Full tibia protection.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Certified By Underwriters Laboratories	n/a	n/a	n/a
IC 16 Chemical Resistant Outer Booties																		
AirBoss-Defense CBRN Overboot	1 AirBoss-Defense	3065 W11	Hand assembled extruded Buyl antistatic material. Offers 24 hours of protection against CBRN agents. Can be fully decontaminated. Available in 7 sizes. Low volume packaging. Excellent physical properties.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	24 hours of protection against all known agents	24 hours of protection against all known agents