

# DefendAIR™



## 15 Minutes of Protection for Escape from Chemical and Biological Agents

The DefendAIR™ is designed for protection against toxic gases (incl. nerve agents, blood agents, tear gas) that may be encountered by first responders, law enforcement or emergency response personnel.

The hood is easy and quick to don – especially in an emergency situation. Donning time is less than 10 seconds. (The hood can be worn even by those who wear glasses or have beards or long hair.)

A high level of communication is possible since there are no mouthbits or nose clips required. With an integrated half mask, the wearer can breathe and speak normally to provide life saving instructions required in these situations.

The hood is designed to provide maximum protection against the hazards by providing a protection factor of approx. 1000 and effective filtering capability plus protection from CO<sub>2</sub> buildup.

Extensive testing such as shock and vibration, package impact tests, visor fogging tests, and temperature tests ensure that the DefendAIR™ is ready to use.

## Technical Data

Hood Material:	Tyvek Type F, passed all standard NATO tests for chemical warfare protection, tested and certified by TNO in the Netherlands. Flame retardant self extinguishing
Lens:	Treated with Antimist Coating 80% of natural field of vision retained
Neckseal:	To provide approx. 1000 Protection Factor
Weight:	16 ounces (packaged in hard case) 12 ounces (ready to use)
Packaged Dimensions:	153 mm (6.0 in) diameter, 90 mm (3.5 in) height
Shelf Life:	5 Years in original packaging
Storage Temperature:	Not to exceed - 20 °C to 60 °C (- 4 °F to 140 °F)
Maintenance:	No interval maintenance is required while unit is maintained in original package.
Approval:	CS/CN P100 acc. NIOSH CFR 42 part 84 ABEP15 acc. to DIN 58647-7

### DefendAIR™ Filter performance:

Particulate Efficiency 99.97 %

### Third Party Test Results (TNO, Netherlands)

Challenge Agent	Concentration	Service Life
DMMP	3000 mg/m <sup>3</sup>	> 22 Minutes
Sarin (GB)	3000 mg/m <sup>3</sup>	> 22 Minutes
Cyanogen Chloride (CK)	3000 mg/m <sup>3</sup>	> 25 Minutes

### Additional Laboratory Testing:

Ammonia	500 ppm	> 30 Minutes
Chlorine	1000 ppm	95 Minutes
Carbon Tetrachloride	1000 ppm	70 Minutes
Sulfur Dioxide	500 ppm	110 Minutes
Phosgene (CG)	1000 ppm	> 95 Minutes

### NIOSH Test results:

Tear gas CS	3 ppm	> 8 hours
Tear gas CN	16 ppm	> 8 hours

## Order List

	Part Number
DefendAIR™ (CE marked)	R 55 000
DefendAIR™ (NIOSH)	R 54 838
DefendAIR™ training/demo unit	R 55 195



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.