

SWEDISH EMERGENCY DISASTER EQUIPMENT

PPE

Personal Protection Equipment
Decon Kit



The Total Solution

FOR NUCLEAR, BIOLOGICAL & CHEMICAL EMERGENCIES



Normeca^{AS}

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Background

The requirements for the Personal Protection Equipment have been specified by members from:

- National Board of Health and Welfare,
- National Rescue Services Board, Swedish Poisons Information Centre,
- National Defence Research Institute.

Aim

The equipment shall protect medical staff while decontaminating casualties in chemical accidents, chemical warfare, terrorist attacks, radioactive fallout etc.

Development

The equipment has been developed in co-operation with doctors, nurses and paramedics and ambulance personnel. Also, training at DEMC (Disaster and Emergency Medical Centre) and tests carried out by National Defence Research Institute, Department for NBC Protection, have been a major input to the development. Safety and comfort have been the main objective.

Function

The blower unit supplies the hood with filtered air. The airflow is constant at 140 l/min. This creates an overpressure in the hood and an extremely high level of protection. The blower unit is powered with standard batteries and gives under normal conditions a using time exceeding six hours. The warning system alerts the user if the airflow drops below 130 l/min, or if the voltage drops to less than 5,8 Volts. The overall is equipped with braces and elastic cuffs around the wrists and ankles. All seams are taped.

Range of use

The equipment is intended for use outside the risk zone. It shall protect the wearer from chemical agents that:

- .evaporates from the casualties, and/or
- .comes into the security area because of change in wind direction.

A complete set includes



- 1 Decontamination Suit in size S-M or L-XXL.
- 1 Suspenders.
- 1 Protective Hood.
- 1 Blower Unit with carrying belt and flow meter.
- 1 Battery Holder. 6 Battery R 14.
- 1 par Robber Gloves.
- 1 par Cotton Gloves.
- 1 par Rubber Boots in size 36-47.
- 2 Filter 100, ABEKP3 Radiak.
- 1 set of Charcoal liner
- 1 Drinking function the hood, incl. connections.
- 1 Kit of spare parts.
- 1 Instruction manual
- 1 Bag

Optional Extras:

- 1 Cooling Vest
- 1 Communications Kit

Resistance Table / Penetration of chemicals

Chemicals		Penetration Time	Repellencyinclination 45°
Ammonia Aqua 25%	NH ₃	>3 h	98,0%
Sulphuric Acid 30%	H ₂ SO ₄	>3 h	96,5%
Hydrochloric Acid 24%	HCl	3 h	99,2%
Sodium Hydroxide 40%	NaOH	>3 h	99,5%
Benzene	C ₆ H ₆	1 h	91,5%
Toluene	C ₆ H ₅ CH ₃	0,5 h	90,1%
Mustard Gas Liquid	S(CH ₂ CH ₂ Cl) ₂	0,5 h	-

Tests performed by:
 FOA (National Defence Research Establishment)
 IFP Research (Institute of Fibre and Polymer Technique)
 TST (Textil Skyddsteknik AB)

Blower unit	47-6200 EN 146
Power source:	Standard battery cells, 6 x 1,5V
Operating time:	> 6 hours
Weight:	850gr excl. Batteries and filters.
Warning system:	Two signals and the unit is ready to operate Short space between the signals = Low voltage Long space between the signals = Low airflow

Filter 100	72-1000 ABEKP3 Radiak
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Hood	46-6010 prEN 146
Material:	Butyl-coated polyester
Neck collar material:	Neoprene
Half mask:	Silicone
Seams:	Double seam, taped
Tape:	Butyl-tape
Safety factor:	2800
Size:	One size fits all adults.
Weight:	700 g.
Washing instructions:	Hand cleansing, soap solution.

Overall:	46-0002/5 EN 465
Material:	Polyurethane coated polyamide
Seams:	Taped
Elastic cuff and collar material:	Neoprene
Pockets:	2 chest pockets, 2 leg pockets, 1 for scissors and pen.
Sizes:	S-M, L-XXL
General:	Equipped with braces.
Bag:	Contains all the above (not boots)
Dimensions:	60 x 30 x 33 cm. Weight 6,5 kg

