CBRN BODY BAG
TYCHEM® TK

RESPIREX™

Description

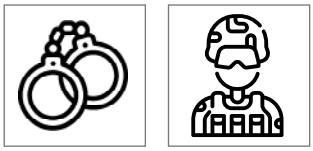
A **gas-tight body bag**, designed to contain chemically contaminated mortalities and body parts after a CBRN incident.

Manufactured in **Tychem® TK**, a high performance multi-layer chemical-barrier fabric, reinforced with a durable PVC base the CBRN body bag is lightweight and extremely durable.

Supplied in a sealed polythene bag and packed in a waterproof PVC stowage bag with webbing strap handles

Applications

Fire Brigades | Health Authorities | Civil Defence



Police | Military

Tested

ISO 17491-1:2012 | Method 2
Gas-Tight Chemical Protective Clothing

Material Performance

FINABEL 0.7.C
Chemical Warfare Agents

EN 14126:2003
Protective Clothing Against Infective Agents

ISO 6529:2013
Protection Against Chemicals

: www.respirex.com : +44 (0)1737 778600

Key Features

Clear **viewing window** for casualty identification (Adult/Large bag only)

A4 **Waterproof pouch** (over viewing widow on large bag) to enable the viewing window to be obscured if necessary and allowing **identification paperwork** to be attached to the body bag

Transparent ID pouch below the viewing window to contain an audit ID label

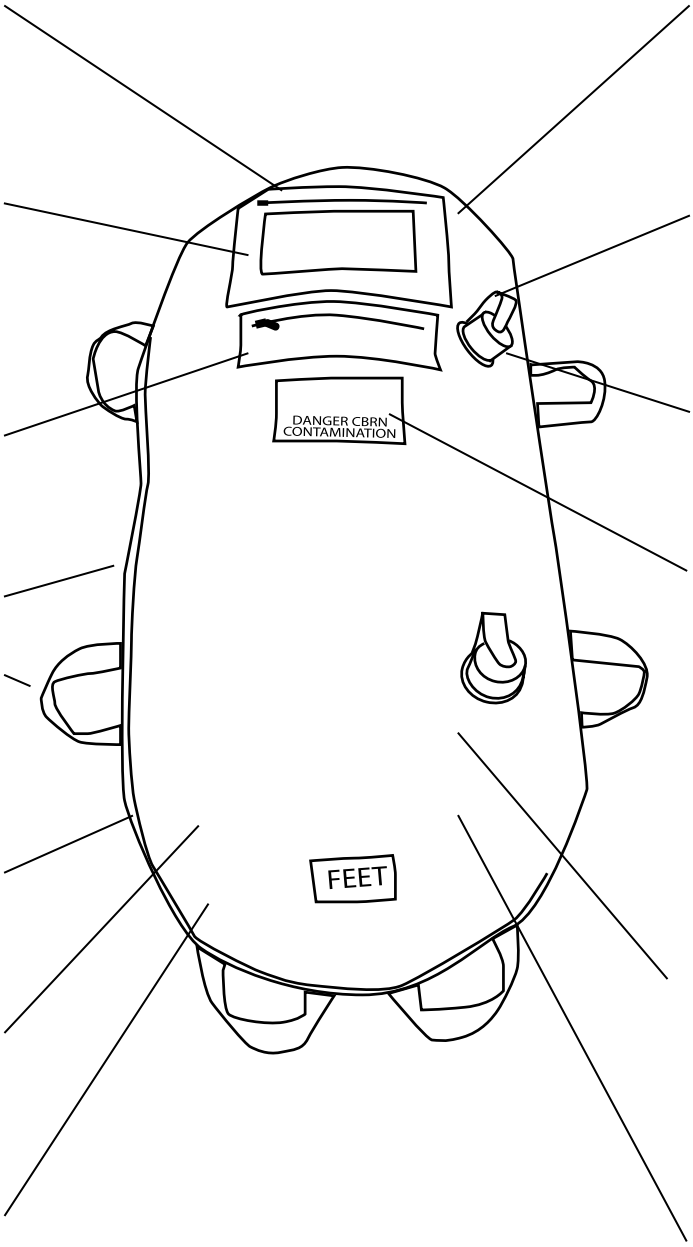
Durable **PVC base layer** for abrasion protection

Sturdy **carrying straps** allow four people in PPE to assist with lifting and carrying

Heavy duty **gas-tight zip** around three sides of the bag for ease of access, fitted with large pull ring strap on the slider for ease of use when wearing CBRN gloves

Absorbent pads in the bottom of the bag capable of holding more than five litres of fluid

Disposal by means of either **cremation or burial**



Manufactured with a **Tychem® TK** shell which provides excellent protection against a broad range of chemicals

For use with two CleanAir® CBRN filters allowing gasses produced by the body as part of the decomposition process to safely pass out of the bag.

Shut off valve over CBRN filter exhaust prevents outflow from the bag during handling

Clear **hazard warning signs** identifying the type of CRBN hazard within the bag

Ten year shelf-life, with three service inspections and recertifications over the life of the body bag*.

Internal gas-tightness **pressure test to ISO 17491-1:2012 Method 2** conducted prior to despatch to confirm the bag is gas-tight

Provides a physical barrier to **particulate, liquid, vapour and gas** materials

Accessories

CBRN Filter

Fitted internally, the CleanAir® CBRN filters are (A3B2E2K2P) supplied in a sealed bag of two and provide protection against organic, inorganic and acid gases and vapours as well as ammonia and organic ammonia derivatives, solid and liquid, radioactive and toxic particles, plus micro-organisms (e.g. bacteria and viruses) as well as chemical and biological warfare agents. The filter allows gasses to safely exit the CBRN body bag, avoiding a build up in internal pressure.

* CleanAir® CBRN filters have a 10 year shelf life from the date of manufacture and will be delivered with minimum of 9 years shelf life remaining

Sizing Chart

	Length	Width	Depth	Max Load
Large	236 cm	95 cm	16 cm	130kg
Medium	175 cm	70 cmm	16 cm	80kg
Infant	80 cm	50 cm	16 cm	25kg

Specifications

CBRN Body Bag (Tychem® TK)	Medium	Large
Pack Size (max)	108 x 30 x 28 cm	108 x 30 x 28 cm
Pack Weight (max)	TBA	TBA
Carton Qty	5	5
Outer Carton Size	TBA	TBA
Outer Carton Weight (max)	TBA	TBA
Commodity Code	42021250	42021250

Specifications are for guidance only

Material Properties

Property	Test Method	Property value of Tychem®TK.	Performance Class of Tychem® TK	Minimum Class Required for EN 943-2:2019
Basis Weight	ISO 536:1995	360 g/m²	N/A	N/A
Thickness	ISO 534:1998	500 µm	N/A	N/A
Abrasion resistance	EN ISO 12947-2 (inc. pressure drop)	> 2000 cycles	6 (out of 6)	4
Flex cracking resistance	ISO 7854 Method B (inc. pressure drop)	> 1250 cycles	2 (out of 6)	1
Trapezoidal tear resistance	EN ISO 9073-4	> 100 N	5 (out of 6)	3
Puncture resistance	EN 863	> 10 N	2 (out of 6)	2*
Tensile Strength	EN ISO 13934-1	> 250 N	4 (out of 6)	4
Resistance to flame	EN 13274-4 Method 3 modified (inc. pressure drop)	No part ignited or continued to burn on removal from the flame	2 (out of 3)	1
Seam strength	ISO 5082 Annex A2†	> 500 N	6 (out of 6)	5

Material tested in accordance with Table 1 of EN943-2:2019 - Minimum performance requirements of chemical protective clothing materials for regular robustness suits.

Chemical Permeation

Chemical	Physical State	Tychem® TK	Seams	Viewing Window
Acetone	Liquid	> 480 mins	> 480 mins	> 480 mins
Acetonitrile	Liquid	> 480 mins	> 480 mins	> 480 mins
Ammonia	Gas	> 480 mins	> 480 mins	> 480 mins
Carbon Disulphide	Liquid	> 480 mins	> 480 mins	> 480 mins
Chlorine	Gas	> 480 mins	> 480 mins	> 480 mins
Dichloromethane	Liquid	> 480 mins	> 480 mins	> 480 mins
Diethylamine	Liquid	> 480 mins	> 480 mins	> 480 mins
Ethyl Acetate	Liquid	> 480 mins	> 480 mins	> 480 mins
n-Heptane	Liquid	> 480 mins	> 480 mins	> 480 mins
Hydrogen Chloride	Gas	> 480 mins	> 480 mins	> 480 mins
Methanol	Liquid	> 480 mins	> 480 mins	> 480 mins
Sodium Hydroxide 40%	Liquid	> 480 mins	> 480 mins	> 480 mins
Sulphuric Acid 98%	Liquid	> 480 mins	> 480 mins	> 480 mins
Tetrahydrofuran	Liquid	> 480 mins	> 480 mins	> 480 mins
Toluene	Liquid	> 480 mins	> 480 mins	> 480 mins

All tests carried out under laboratory conditions by independent accredited laboratories in accordance with ISO 6529 unless otherwise stated. Table shows average breakthrough times in minutes.

For full details of the chemical permeation performance of Tychem® TK and its performance against chemical warfare and infective agents, please visit the materials section of the Respirex website **www.respirex.com**.

RESPIREX™

Living + Breathing Personal Protection

Respirex International Limited, Unit F Kingsfield Business Centre, Philanthropic Road, Redhill, Surrey, RH1 4DP, United Kingdom
: www.respirex.com : +44 (0)1737 778600 : info@respirex.co.uk

BODY BAG

GUIDANCE FOR USE

1. Unpack the body bag from its PVC stowage bag (fig. 1)
2. Remove from its sealed polythene bag and unfold (fig. 2)
3. Inside the stowage bag, between the folded body bag there is a pack of two CleanAir CBRN filters (fig. 3)
4. Unzip the heavy gas-tight zipper with the orange pull ring on slider (fig. 4)
5. The interior of the body bag (fig. 5) has the following:
6. Super absorbent sheets (x3)
7. Filter Housing (x2) to fit CleanAir CBRN filters
8. Unwrap the filters, removing the red plastic caps on the filter thread and inlet (fig. 6a) and fit them inside the body bag on the filter housings (fig. 6b). When fitting the filter(s) ensure they are screwed firmly into the housings.
9. When static, open the valve protection caps (x2) on the outside of the body bag (fig. 7a and 7b). When moving, during wet decontamination or exposed to heavy rain, the valve caps MUST BE closed.
10. Highlight or cross out symbols (fig. 8) to show the type of contamination

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6a

Fig. 6b

Fig. 7a

Fig. 7b