### **PRODUCT INFORMATION** Chemical protective coverall activebreath 2

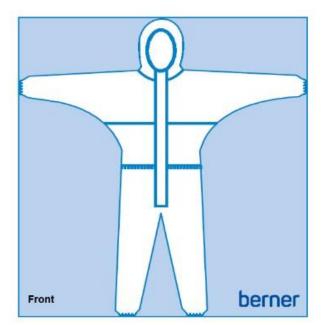
Breathable chemical coverall

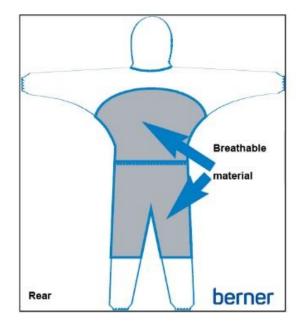
#### **Application and properties**

- + **Maximum protection and comfort:** Type-tested and certificated as complex PPE category III; Type 5 / 6 chemical protective clothing; partial body protection. Comfortable to wear; Material is low in lint and particles; available as sterile and non-sterile versions: High neckline, zip with overlapping flap, elasticated sleeves, ankles and hood. Back of the overall with breathable non-protective material between shoulders and knees. Anti-static.
- Application range: Suitable for protection against airborne solid particulate (Type 5) and liquids or aerosols (Type 6), limited protection against liquid chemicals.
   Protective barrier: Liquid-impermeable coating in the front area, not coated in the back area between shoulder blades and the back of the knees.
- + **Protective properties:** Protection against all CMR drugs or chemicals cannot be guaranteed! In case of exposure to biohazards, which do not correspond to the degree of imperviousness of the protective clothing, bio-contamination of the wearer is possible.
- + Before use: Check for any damage! Do not use damaged coveralls!
- + Waste disposal for cytostatics: Waste requiring supervision (waste code: 18 01 04 in accordance with 2000/532/EC); in case of heavy contamination, waste requiring special supervision) (waste code: 18 01 08\* or AS 18 02 07)\* in accordance with 2000/532/EC); collect and dispose of waste separately!

1): Carcinogenic mutagenic reproductive toxic. 2): Dependent on chemicals/CMR-pharmaceutical drugs used. 3): Any types of waste marked with (\*) is hazardous waste in accordance with the German § 41 des KrW-/AbfG. 4): Cytotoxic and cytostatic pharmaceuticals.

The protective coverall BERNER activebreath 2 is designed as chemical protective clothing. The protective material (nonwoven polypropylene fleece, 69 g/m<sup>2</sup>) covers the complete front part of the overall as well as the shoulders and calves at the back. The part without the tested protective function (micro-porous polyethylene, SMMS 55 g/m<sup>2</sup>) is confined to the back - the area between the shoulder blades and the back of the knees.





Berner International GmbH Werner-von-Siemens-Str. 19 D-25337 Elmshorn Contact Tel +49 4121 4356-0 Fax +49 4121 4356-20 Web www.berner-safety.de info@berner-safety.de Document-ID: 165893 Generated: A. Methner – Approved: R. Wörl Valid from 26 January 2024

## berner

Versio	ns				Colour: white
Size	Chest(cm)	Height (cm)	Nos. per pack (non- sterile/sterile)	Order No.: (non-sterile)	Order No.: (sterile)
S	84 – 92	164 - 170	8 / 6 pieces	100183	100189
М	92 – 100	170 – 176	8 / 6 pieces	100184	100190
L	100 - 108	176 – 182	8 / 6 pieces	100185	100191
XL	108 - 116	182 – 188	8 / 6 pieces	100186	100192
XXL	116 – 124	188 – 194	8 / 6 pieces	100187	100193
XXXL	> 124	> 194	8 / 6 pieces	100188	100194
Mater	ial properties				
Material			Non-woven p	olypropylene	
Material weight			69 g/m²		
Liquid impermeable coating			Micro-porous	polyethylene	
Back material			Breathable SMMS 55 g/m <sup>2</sup>		
Total weight coverall			180 g – 252 g,	± 5g (depends on	size)
Protectio	on against mechanica	al properties			
Mechani	cal material properti	es in accordance to EN	14235		
Requirer	nents				
Abrasion resistance (1-6) in acc. to EN 530				2	
Puncture	e resistance (1-5) acc.	to EN 863		1	
Seam ter	nsile strength (1-5) ac	cc. to ISO 13935-2		3	
Flex crac	king resistance (1-6)	acc. to EN ISO 9073-4	longituc	linal 6/6	transverse 6/6
Trapezoidal tear resistance (1-6) acc. to EN ISO 90		-6) acc. to EN ISO 9073	-4 longituc	linal 2/6	transverse 2/6
Tensile strength (1/6) acc. to EN ISO 13934-1		EN ISO 13934-1	longituc	linal 3/6	transverse 1/6
Electrost	atic properties				
Antistati	c treatment in accord	lance to EN 1149-5:200	08		
	on against chemical haza		ight front page) in acc. to EN	14325 Abs. 4.12 or. I	EN 6530
Chemica		В	reakthrough [min.]	Resistance	
Sulphurio	c acid, 30%	3	/3	3/3	

Sulphuric acid, 30%	3/3	3/3
Sodium hydroxide, 10%	3/3	3/3

Berner International GmbH Werner-von-Siemens-Str. 19 D-25337 Elmshorn

**Contact** Tel +49 4121 4356-0 Fax +49 4121 4356-20

Web www.berner-safety.de info@berner-safety.de Document-ID: 165893 Generated: A. Methner – Approved: R. Wörl Valid from 26 January 2024

## berner

O-xylene	0/3	0/3
1-butanol	0/3	0/3

#### **Protection against chemicals**

**Permeation**<sup>1)</sup> tested in accordance to the European standard EN 374-3:2003 / EN 16523-1:2015. For the following chemicals the breakthrough times<sup>2)</sup> [min] / performance categories<sup>3)</sup> (1-6) were determined:

Tested chemicals	Breakthrough time [min]	Performance class
Cisplatin	> 120 minutes	4
Congo-red, 1 %	> 30 minutes	2
Cyclophosphamide, 20 mg/ml	> 120 minutes	4
3,3 Diaminobenzidine, 1 mg/ml	> 30 minutes	2
Formaldehyde, 37 %	> 120 minutes	4
5-Fluorouracile, 10 mg/ml	> 120 minutes	4
Isopropanol, 70 %	> 30 minutes	2
Paclitaxel	> 120 minutes	4
Sodium hydroxide, 10 %	> 120 minutes	4
Sulphuric acid, 30 %	> 60 minutes	3
Thiotepa	> 120 minutes	4
Vincristine, 20 mg/ml	> 120 minutes	4

<sup>1)</sup>: Movement of a chemical through a material on a molecular level.

<sup>2)</sup>: At a permeation rate of 1  $\mu$ g/min·cm<sup>2</sup>

<sup>3)</sup>: The performance class does not reflect the actual duration of protection at the workstation, as temperature and abrasion may have an effect on these!

# Sterilisation Procedure Fumigation with ethylene oxide

#### **Care instructions**

- + Single use item
- + No washing, tumble drying, ironing
- + No dry cleaning

#### **CE-marking**

In accordance to the PPE regulation EU 2016/425 for complex PPE category III; Type test according to EN 13982-1:2004, EN 13034:2005+A1:2009 and EN 1149-5:2008. EC-type test and control measures by the notified body "0624". Documented by EC type test certificate no. VC 1002210080-00.

EC-declaration of conformance and EC-Type test certificate can be downloaded at <u>www.berner-safety.de</u>.

Contact Tel +49 4121 4356-0 Fax +49 4121 4356-20 Web www.berner-safety.de info@berner-safety.de Document-ID: 165893 Generated: A. Methner – Approved: R. Wörl Valid from 26 January 2024



#### Notified body "0624"

Certifying authority: Centrocot Tessile Contoiere e Abbligamento S.p.A., Piazza S. Anna 2, 21052 Busto Arsizio (VA), Italien

#### **Quality management system**

Our **quality management system** is **tested and certified** by TÜV Management Service GmbH in accordance with DIN EN ISO 9001:2015. Regular **audits and production site inspections** guarantee the quality of our products.

#### Storage and transport conditions

- + Dark (protect from direct UV and sunlight)
- + Cool (+5 to +40°C)
- + Dry (relative humidity 30% 60%)
- + No contact with sharp and/ or pointed objects

#### **Shelf life**

- + Non-sterile version: 5 years from date of manufacture
- + Sterile version: 5 years from date of manufacture

#### **Distributor**

**Berner International GmbH**, Werner-von-Siemens-Str. 19, 25337 Elmshorn Tel: +49 4121 43560, Fax: +49 4121 435620 <u>info@berner-safety.de</u>, www.berner-safety.de

Berner International GmbH Werner-von-Siemens-Str. 19 D-25337 Elmshorn Contact Tel +49 4121 4356-0 Fax +49 4121 4356-20 Web www.berner-safety.de info@berner-safety.de Document-ID: 165893 Generated: A. Methner – Approved: R. Wörl Valid from 26 January 2024

