

VS 5 SERIES

PTFE visor
Power Resistance



WIPAN C / CK / CK+
One Glove for all



HPF CHEM BOOT (+/P-L)
Safety boots



VS 5 SERIES

VS 5 SERIES - DESIGN

Suit description, VS 5 series

! The suit description applies to all models of the VS 5 series. For details that differ, see the following description of the protection suit.

- For use in industry, military, shipping and firefighting
- One-piece complete chemical/fire brigade protection suit (CPS) with visor for unlimited use by fire brigades.
- The protection suits (CPS) of this series have been tested and certified to DIN EN 943:2015 Part 1 and DIN EN 943 Part 2 (emergency teams (ET), for unrestricted use in fire brigades) according to Directive 89/686/EEC and EN ISO 13688:2013.
- Further approvals: DIN EN 14126 (biological risks), DIN EN 1149, Ex zone Area 0, ATEX (TRBS 2153, Section 7.3, electrostatic properties of protective clothing), SOLAS (maritime), DIN EN 1073-2 (radioactive particles)
- Classification by standard: Type 1a = gas-tight chemical protection suit with breathing air supply worn inside the chemical protection suit, for example compressed air equipment.
- All popular firefighter helmets and industrial hard hats can be worn under the suit. We recommend a helmet, for example to EN 443:2008 for firefighter helmets, to DIN EN 397 for industrial hard hats and to EN 12492 for mountaineering helmets (see accessories).
- Life cycle: 15 years: 10 years, then inspection: + 5 years
- OPTIONAL: SMART STOCK (5 years maintenance-free, vacuum packaged with seal)
- SIZES: Four individual sizes (M to XXL)
- Health: Use of dermatologically tested and environment-friendly materials throughout

! Standard equipment, VS 5 series

All models feature the standard equipment.

For different or additional protection characteristics, see the following model description for the selected material.

- VS 5 POLYRAN-L, VS 5 CHEMBA, VS 5 SYKAN 2, VS 5 SYKAN 5, VS 5 SYKAN 4

- A permanently installed, transparent non-fogging visor with additional PTFE foil window. The window provides protection from all reference chemicals for 8 hours to DIN EN 943 Part 2 (ET)
- Optional PATENTED SENSOR SYSTEMS for protection suits, see Accessories.
- Five-finger exchangeable chemical protection gloves with the TESIMAX replacement system are fitted (standard: size 10) Inner or overgloves are not generally required. For models and possible alternatives, see the model description.
- Safety boots, size 46, certified to DIN EN 15090, DIN EN ISO 20345 and DIN EN 13832-3 are exchangeable (TESIMAX replacement system). For other sizes (43-47), see Accessories.
- Some CPS models are equipped with safety boots to EN ISO 20345:2011 (see models). These boots are resistant against chemicals such as oils and grease.
- The protection suits can optionally be fitted with footlets made of suit fabric in combination with suitable safety boots, as described.
- The suit features braces attached to the crotch (DGBM G 900 1497.0, EP 0440954 and US patent No. 5.133.092). They can be adjusted to the wearer's size to distribute the suit's weight evenly across the shoulders.
- The suit incorporates a two-way radio pocket.
- A backpack cushion is integrated in the suit inner.
- The 130 cm long gas- and liquid-tight zip fastener is fitted on the right side. It is protected with a labyrinth cover and closes from bottom to top.
- The suit features two safety (exhalation) valves with an additional splash cover made of suit fabric.
- All CPS of this series are prepared for later installation of an external F-AU 1-4 series forced ventilation system(see Accessories).
- The suit is supplied in a black, tear-resistant storage bag for flat storage. For other bags, see Accessories.



+ For further options, see CPS Accessories.

VS 5 POLYRAN-L

Fabric description, VS 5 POLYRAN-L

Matrix PA base fabric coated on both sides with POLYRAN (Performance TP)

Characteristics

- Extremely light-weight and flexible
- Reusable, washable, excellent mechanical properties (tear-, abrasion- and perforation-resistant)
- Excellent chemicals resistance to most acids and alkalis
- Applications: Industry, pharmaceuticals, clinics or as training suit for firefighters and decon
- Colour:  yellow or  red (optional)
- Approval: DIN EN 943 Part 1 -1a (industry)
Ex zone area 0 (static inhibitor)
DIN EN 14126, DIN EN 1149, EN 1073-2, EN ISO 13688:2013

- Weight: 5.5 kg without extras
- Service life: up to 15 years according to manufacturer's guideline
- Protective gloves: Telblue in sizes 7 to 10 (please specify when ordering)
Alternatives: Neotex Technic or 450 Alpha Tec (please specify when ordering)
- Safety boots HPF - CHEM P-L to EN ISO 20345:2011
Boot sizes from 43 to 47 (please specify when ordering)
- Alternative: Footlets made of suit fabric

Ordering data

Sizes 160 to 175 cm **Order no.: 0201-151 M**

Sizes 170 to 185 cm **Order no.: 0201-151 L**



Sizes 180 to 190 cm **Order no.: 0201-151 XL (standard)**

Sizes 190 to 200 cm **Order no.: 0201-151 XXL**

ALTERNATIVE:

Also available with non-gas-tight zip fastener and applied "Training suit" marking.
Ordering note: TRAINING

Property rating, VS 5 POLYRAN-L


Chemical resistance	
Mechanical resistance	
Heat: Contact heat at about 850 ± 50 °C	
Heat: Hot vapour at about 350 °C	
Heat: Radiated heat at about 1000 °C	not tested
Cold: Contact cold at -30 °C	
Cold: Contact cold at -80 °C	not tested
Cold: Contact cold at -100 °C	not tested

For further options, see CPS Accessories.



VS 5 CHEMBA

Fabric description, VS 5 CHEMBA

- The Chemba fabric consists of a highly chemicals-resistant multi-layer foil laminate combined with a physically rugged matrix PA base fabric. Chemba offers:
 - + High mechanical stability, including high-quality technology-taped seam covers
 - + Good protection against gasses
 - + Excellent chemicals resistance (tested to DIN EN 943-2)
 - + Good protection from liquids (e.g. test against liquid war gasses to FINABEL 0.7 C)
 - + Good dust-tightness (for example radioactive particles; tested to EN 1073-2)
 - + Good wearing comfort through ultra lightweight design (less than 2 kg for VS 5 CHEMBA!)
 - + Non-adhering top layers for better decontamination (nano effect)
 - + Good antistatic and insulating properties (tested to EN 1149) in combination with static inhibitor
- This protection suit is packaged in foil for safe long-term storage (10 years according to manufacturer)
- Applications: Pharmaceuticals, clinics, military and civil defence, industry and fire brigades
- Colour:  signal orange
- Approval:
 - DIN EN 943 Part 2 (ET) 1a
 - Ex-area zone 0
 - DIN EN 14126, DIN EN 1149, EN 1073-2, EN ISO 13688:2013
- Weight: less than 2 kg without extras
- Service life: up to 10 years according to manufacturer's guideline
- Visor: orange as standard (transparent please enquire)
- Protective gloves: HP elastomer with integrated chemical barrier film (incl. woven underglove) in size 9-10
- Optional boots: please enquire
- Standard: Footlets made of suit fabric

Ordering data

Sizes 160 to 175 cm **Order no.: 0201-163 M**

Sizes 170 to 185 cm **Order no.: 0201-163 L**

Sizes 180 to 190 cm **Order no.: 0201-163 XL (standard)**

Sizes 190 to 200 cm **Order no.: 0201-163 XXL**

Property rating, VS 5 CHEMBA

Chemical resistance	
Mechanical resistance	
Heat: Contact heat at about 850 ± 50 °C	
Heat: Radiated heat at about 350 °C	not tested
Heat: Radiated heat at about 1000 °C	not tested
Cold: Contact cold at -30 °C	
Cold: Contact cold at -80 °C	not tested
Cold: Contact cold at -100 °C	not tested

For further options, see CPS Accessories.





VS 5 SYKAN 2

Fabric description VS 5 SYKAN® 2

SYKAN 2 has a PA matrix-base fabric coated with high-performance elastomers. An incorporated high-performance plastic foil acts as a protective barrier for superior wearing comfort, low noise and highest quality. Version SYKAN 5 has two integrated standard barrier films.

Characteristics

- Reusable, washable, excellent mechanical properties (tear-, abrasion- and perforation-resistant)
- Outstanding chemicals resistance, for example against acids, alkalis and solvents. Lowest permeability (also against war gasses)
- Good ageing, weathering and ozone resistance
- Applications: Pharmaceuticals, clinics, military and civil defence, industry, shipping and fire brigades (unlimited)
- Colour, Sykan 2:  signal orange (outer)/grey (inner)
- Colour, Sykan 5:  signal yellow (outer)/grey (inner)
- Approval: DIN EN 943 Part 2 (ET) -1a (industry & fire brigades)
Ex-area zone 0
DIN EN 14126, DIN EN 1149, EN 1073-2, SOLAS,
EN ISO 13688:2013
- Weight: 6 kg without extras
- Service life: up to 15 years according to manufacturer's guideline
- Protective gloves: WIPAN C in sizes 9 to 10 (please specify when ordering)
Alternatives: WIPAN CK/CK+ or Butoflex (please specify when ordering)
- Safety boots: HPF CHEM to DIN EN 15090, DIN EN ISO 20345 and
DIN EN 13832-3 0176-001
Boot sizes from 43 to 47 (please specify when ordering)
- Alternative: Footlets made of suit fabric

Ordering data

Sizes 160 to 175 cm Order no.: 0201-212 M

Sizes 170 to 185 cm Order no.: 0201-212 L

Sizes 180 to 190 cm Order no.: 0201-212 XL (standard)

Sizes 190 to 200 cm Order no.: 0201-212 XXL

Also available as SYKAN 5





Sizes 160 to 175 cm Order no.: 0201-250 M

Sizes 170 to 185 cm Order no.: 0201-250 L

Sizes 180 to 190 cm Order no.: 0201-250 XL (STANDARD)

Sizes 190 to 200 cm Order no.: 0201-250 XXL

Property rating, VS 5 SYKAN 2/SYKAN 5

Chemical resistance	
Mechanical resistance	
Heat: Contact heat at about 850 ± 50 °C	
Heat: Hot vapour at about 350 °C	
Heat: Radiated heat at about 1000 °C	not tested
Cold: Contact cold at -30 °C	
Cold: Contact cold at -80 °C	
Cold: Contact cold at -100 °C	not tested

For further options, see CPS Accessories.




VS 5 SYKAN 4

Fabric description VS 5 SYKAN® 4

SYKAN 4 has a 100% para-aramide base fabric coated with high-performance elastomers. An incorporated high-performance plastic foil acts as a protective barrier for superior wearing comfort, low noise and highest quality.

Characteristics

- Reusable, washable, excellent mechanical properties (tear-, abrasion- and perforation-resistant)
- Outstanding chemicals resistance, for example against acids, alkalis and solvents. Low gas permeability (also against war gasses)
- Good ageing, weathering and ozone resistance
- Applications: Pharmaceuticals, clinics, military and civil defence, (maritime) industry, shipping and fire brigades (unlimited)
- Colour:  signal yellow (outer)/grey (inner)
- Extremely high thermal resilience:
 - for short periods up to 850 °C (combustion)
 - for short periods up to -196 °C (liquid nitrogen)
- Outstanding mechanical strength over entire service life; very low fabric weight
- Approval:
 - DIN EN 943 Part 2 (ET) -1a (industry & fire brigades)
 - Ex-area zone 0
 - EN 1073-2, SOLAS, EN ISO 13688:2013
- Weight: 6 kg without extras
- Service life: up to 15 years according to manufacturer's guideline
- Protective gloves: WIPAN CK in sizes 9 to 10 (please specify when ordering)
Alternatives: WIPAN CK+ or Butoflex (please specify when ordering)
- Safety boots: HPF CHEM to DIN EN 15090, DIN EN ISO 20345 and DIN EN 13832-3 0176-001
Boot sizes from 43 to 47 (please specify when ordering)
- Alternative: Footlets made of suit fabric

Ordering data









Sizes 160 to 175 cm Order no.: 0201-214 M

Sizes 170 to 185 cm Order no.: 0201-214 L

Sizes 180 to 190 cm Order no.: 0201-214 XL (standard)

Sizes 190 to 200 cm Order no.: 0201-214 XXL

Property rating, VS 5 SYKAN 4

Chemical resistance	
Mechanical resistance	
Heat: Contact heat at about 850 ± 50 °C	
Heat: Hot vapour at about 350 °C	
Flashover-tested at about 850 ± 50 °C (8 seconds) to ISO 13506:2008	
Heat: Radiated heat at about 1000 °C	not tested
Cold: Contact cold at -30 °C	
Cold: Contact cold at -80 °C	
Cold: Contact cold at -100 °C	

For further options, see CPS Accessories.

