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Products for operational hygiene at the fire ground





We are optimal

For more than 25 years, we have been developing operational equipment for fire services and disaster protection, as well as mobile protective systems for industry, at our principal office in Menden (Sauerland) / Germany. Our key areas of focus include oil spill response, decontamination, hazardous materials / CBRN operations, firefighting water retention, and flood protection. Solid technical expertise, close cooperation with fire departments, innovation combined with the continuous improvement of established equipment, and, not least, consistently practice-oriented product and quality management form the foundation of our work. Benefit from our expertise for your specific requirements. We support you from the very beginning.

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A roll container with everything required for initial hygiene measures at the incident scene:

With the operational hygiene at the fire ground roll container, a comprehensive concept for initial gross decontamination on-site—e.g. after a firefighting operation—can be implemented quickly and easily. It carries extensive equipment that is not only based on DGUV Information 205-035 (Hygiene and contamination prevention in the fire service), but also supplements it in a practical way. In addition to a hygiene board, a mobile boot washing unit, and washing brushes, further equipment is included:

A folding pavilion (approx. 3.00 x 3.00 m) provides emergency forces with both weather and visual protection. Four removable side tarps allow flexible adaptation to local conditions. A tarp set can be used to structure the decontamination area spatially and enables a clear visual separation between the black and white zones at first glance. Here, emergency forces can remove or change clothing and are additionally protected from wet ground surfaces. For initial skin cleansing at the incident scene—especially to remove soot or other strongly adhering contaminants—the Black Wipes moist skin cleansing wipes are carried on the roll container.



Both Black Sets (Black Set Crew for attack teams and Black Set Support for personnel assisting with decontamination and undressing) are also included and therefore available in sufficient quantities at the incident scene. The Black Sets contain everything required for simple and DGUV-compliant removal and packaging of contaminated protective clothing, as well as for initial skin cleaning at the incident scene. White Sets provide additional change clothing stored on the roll container.

All components can of course also be used individually. For example, the folding tent can also serve as a rest or medical assistance tent.

The roll container is built according to DFV recommendations and equipped with a safety braking system (safety drum brake acting on two fixed castors, 200 mm). When the brake lever is engaged, the drum brakes are released and the trolley can be moved. Once the brake lever is released, the roll container is immediately braked and remains stationary. The brakes are adjusted to allow controlled braking, enabling safe movement even on steep gradients. The braking system holds a weight of 300 kg on a 12% incline.

Scope of delivery Black Box

Roll container for operational hygiene at the fire ground, L x W x H: 1200 x 800 x 1820 mm (available on request with a height of 1720 mm), fully equipped with:

- 1 sturdy folding pavilion 3 x 3 m, including roof and 4 side walls
- 1 set of weights and tie-downs
- 1 folding seating set consisting of 1 table and 2 benches
- 2 boxes of Black Wipes
- 8 Black Sets CREW
- 2 Black Sets SUPPORT
- 8 White Sets (change clothing)
- 1 hygiene board with hand wash lotion, disinfectants, towels, and brushes
- 1 tarp set for operational hygiene at the fire ground
- 1 boot washing unit ■ and much more

Procedure

Preparation

1. Setup of the decontamination area:

- a) Define the black/white zones using the tarp set.
- b) Set up the pavilion as visual and weather protection; position the folding seating set.
- c) Install the boot washing unit and the hygiene board with washing brush and connect the water supply according to the schematic above.
- d) Lay out the honeycomb mats in the black area. Provide an empty Eurobox with PE bag (from the Black Set Support) for used breathing apparatus components on the designated storage tarp for the put down area.
- e) Place Black Set Crew in the black area and White Sets in the white area, e.g. on the folding seating set.
- f) Provide one removal bag and one PE bag for breathing apparatus units from the Black Set Crew in the black area.

2. Equipping personnel with personal protective equipment from the Black Set Support:

- | | |
|-------------|-----------------------|
| a) FFP mask | c) Protective goggles |
| b) Apron | d) Disposable gloves |

Decontamination after interior attack

- 1 Removal of operational equipment such as radio, handheld lamp, thermal imaging camera on the designated storage tarp.
- 2 Pre-cleaning of personnel by a support worker using a washing brush – from top to bottom. Special attention to cleaning of gloves if they cannot be sent to laundry service. The lung demand valve remains connected during this process. If this is not possible due to insufficient air supply, the lung demand valve is replaced with a particulate or combination filter,

or in an emergency, the facepiece is replaced with an FFP mask.

- 3 Boot cleaning at the boot washing unit.
- 4 Removal of firefighting protective gloves into the provided removal bag from the Black Set Crew (if gloves are washable) and replacement with disposable gloves handed out by a support worker.
- 5 If not already done, removal of the lung demand valve. Flame-retardant hood is placed in the removal bag. The lung demand valve is placed in the prepared PE bag (from the Black Set Support) inside the Eurobox. A particulate-filtering half mask is then immediately donned, provided by a support worker.
- 6 The breathing apparatus set is removed with the assistance of a support worker and packaged in the prepared PE bag from the Black Set Crew.
- 7 In parallel: initial cleaning of equipment (hand lamp etc.) by a support worker using a sponge cloth.
- 8 Personal items such as name tags or webbing slings, as well as other non-washable components (e.g. carabiners, suspenders), are removed from the protective clothing and packed into the personal items bag from the Black Set Crew.
- 9 Firefighting protective clothing is removed with assistance of a support worker, turning the garments inside out to ensure that the outer contaminated surface does not come into contact with the skin. The protective clothing is placed into the removal bag.
- 10 The particulate-filtering half mask and gloves can be removed and disposed of. The gloves are turned inside out. For disposal, the empty packaging of the Black Sets is used.
- 11 Initial cleaning of the face and neck area is carried out using a Black Wipe. Subsequently, hands and arms are cleaned with another Black Wipe.
- 12 Putting on change clothing from the White Set.

Black Box



Black Sets

Hygiene measures are becoming increasingly important in fire service operations. DGV Information 205-035 ("Hygiene and Contamination Prevention in the Fire Service") from May 2020 describes appropriate and necessary measures for operational hygiene at the fire ground. These measures significantly reduce hazards caused, among other things, by the spread of contamination. This helps to sustainably protect the health of firefighters.

The Black Sets provide all required materials in practically pre-assembled kits. They contain everything needed for simple and DGUV-compliant removal and packaging of contaminated protective clothing, as well as initial skin cleaning at the incident scene. This can be usefully complemented by the separately available White Sets, which contain change clothing for the white zone.

The Black Sets are available in two variants, both of which are required for an optimal operational hygiene workflow:



Black Set Crew:
Equipment for emergency forces for initial decontamination and for packaging contaminated protective clothing on-site, e.g. following a firefighting operation.

1

Scope of delivery Black Set Crew

One set is required per responder.

- 1 pc. Black Bag removal sack with accompanying card, Ø 80 cm, height 110 cm
- 1 pc. PE bag for contaminated breathing apparatus, 70 x 110 cm
- 2 pcs. cable ties
- 2 pcs. Black Wipe skin cleansing wipes
- 1 pc. FFP2 mask
- 1 pair disposable nitrile gloves, size 10
- 1 bag for personal items from protective clothing



Black Set Support:
Equipment for support personnel assisting contaminated emergency forces with gross decontamination and with the removal and packaging of soiled equipment at the incident scene.

2

Scope of delivery Black Set Support

One set is required per support worker.

- 1 pc. disposable PE apron
- 1 pc. disposable protective goggles
- 1 pc. PE bag, e.g. for used lung demand valve, 70 x 110 cm
- 1 pc. cable tie
- 2 pcs. Black Wipe skin cleansing wipes
- 1 pc. FFP3 mask
- 1 pc. sponge cloth
- 1 pair disposable nitrile gloves, size 10

White Sets

As part of operational hygiene at the fire ground, changing from contaminated protective clothing into clean clothing immediately after a structural fire is essential. As change clothing, we offer appropriately assembled and practically packaged sets: the White Sets. The name does not refer to the colour of the clothing, but to the black/white zone separation: the Black Sets with equipment for decontamination and packaging of contaminated operational clothing are used in the black zone, while the White Sets are made available in the white zone.

Two variants are available: White Sets (K) and White Sets (V). The "K" stands for compression bags, as these sets are packed in round, compressible bags. The textile quality is very high, and all items are printed with the word "Feuerwehr". The "V" stands for vacuum bags, as all items are packaged in vacuum-sealable, transparent bags. In this set, only the jacket and the T-shirt are printed with the word "Feuerwehr".



White Set K – Art. No. 5.001.30X

4-piece set with change clothing for carrier

- Compression bag, waterproof bag with roll-up closure and compression straps (100% polyester)
- Crew neck T-shirt, dark blue, reinforced seams at sleeves and shoulders, side seams (60% cotton, 40% polyester)
- Hooded jacket, dark blue, high-quality sweatshirt jacket (60% cotton, 40% polyester)
- Sweatpants, dark blue (60% cotton, 40% polyester)
- All items including silver reflective textile print "Feuerwehr"



White Set V – Art. No. 5.001.31X

4-piece set with change clothing for carrier

- Vacuum bag 60 x 40 cm
- Round neck shirt, dark blue, reinforced seams at sleeves and shoulders, side seams (100% cotton)
- Hooded jacket, dark blue, double-layer hood with matching drawstring, two patch pockets
- Sweatpants, dark blue, elastic waistband with drawstring, open leg cuffs
- T-shirt and jacket including silver reflective textile print "Feuerwehr"

Black Wipes

Black Wipes are moist skin cleansing wipes specifically designed for emergency emergency forces. The unfolded size of 24 cm x 24 cm allows thorough cleansing of skin areas. Black Wipes provide firefighters and other organizations, THW units, and other organisations with a simple and practical option for initial skin cleansing, e.g. directly after a structural fire. Cleaning of the face, hands, neck, nape, and forearms helps prevent the spread of contamination as well as the uptake of hazardous substances via subsequent fluid or food intake.

After use, Black Wipes can be disposed via normal household waste. The wipes are individually packaged and available in cartons of 25 pieces. They are also part of the Black Sets, which include further equipment components for simple initial decontamination, cleaning, and packaging of contaminated protective clothing directly at the incident scene. It is recommended to stock Black Sets for attack crews and to carry an additional carton of Black Wipes on fire service vehicles for other emergency forces or for use, for example, after traffic accidents or other technical rescue operations.



Application of Black Wipes

Remove the Black Wipe skin cleansing cloth from its packaging and fully unfold it.



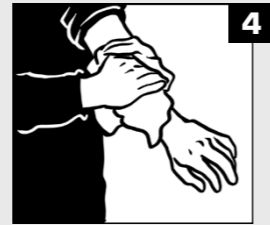
1 First, clean the face from the inside to the outside.



2 Then clean the ears, neck, and neck area.



3 Then the hands...



4 ...and arms.

After use, dispose of properly.



Ingredients: AQUA, POLYSORBATE 20, PROPYLENE GLYCOL, BENZYL ALCOHOL, PARFUM, 2-BROMO-2-NITROPROPANE-1,3-DIOL, PPG-2 METHYL ETHER, ALOE BARBADENSIS EXTRACT, DEHYDROACETIC ACID, IODOPROPYNYL BUTYLCARBAMATE, COUMARIN, LINALOOL, LIMONENE.

CPNP No.: 3620212

Intended use: For skin cleansing of fire service personnel, e.g. for initial decontamination after an interior attack.

Warnings: For external use only. Avoid contact with eyes – in case of eye contact, rinse thoroughly immediately with tap water.

The "Black Cases" product family for operational hygiene at the fire ground comprises three modules that enable gross decontamination, decontamination and skin cleansing, as well as the safe packaging of contaminated protective clothing and breathing apparatus, and the subsequent change of clothing for breathing apparatus teams. The equipment is based on the requirements of DGUV Information 205-035. It therefore also includes personal protective equipment (FFP masks, protective gowns, safety goggles, disposable gloves, etc.) for support personnel who clean attack crews and used equipment and assist during undressing. Each module is stored in a Eurobox measuring 60 × 40 × 33.5 cm. This allows compact stowage even on fire engines or MTFs.

The modules – which are also available individually – are structured as follows:



Black Case Module 1 – Gross decontamination:

After the interior attack, the attack crew is subjected to gross pre-cleaning. For this purpose, Black Case Module 1 contains a mobile boot washing unit, washing brushes, hoses, and adapters. This allows the attack crew to be initially decontaminated by support personnel, and operational equipment such as axes, Halligan tools, etc. is cleaned of coarse contamination.



Black Case Module 2 – Operational hygiene at the fire ground:

Support personnel involved in operational hygiene at the fire ground protect themselves using the materials from the Black Set Support – e.g. FFP3 masks, protective goggles, and disposable gloves. With the Black Set Crew, attack crews receive materials for skin cleansing and for packaging contaminated protective clothing and breathing apparatus.

Contents Module 1 – Gross decontamination: Art. No. 5.004.100

- 1x boot washing unit
- 1x connection hose 5 m
- 1x connection hose 3 m
- 1x connection hose 1.5 m
- 2x hand washing brushes
- 1x spray nozzle, metal
- 1x Storz C to threaded adapter for 4-way valve
- 1x Storz C to Storz B adapter
- 1x 4-way valve with plug-in connectors, metal
- 1x 2-way valve with plug-in connectors, metal

Contents Module 2 – Operational hygiene at the fire ground: Art. Nr. 5.004.200

- 8x Black Set Crew
- 2x Black Set Support
- 4x Black Wipes (pack of 25 cleansing wipes each)



Black Case Module 3 – Change clothing:

As the final step of operational hygiene at the fire ground measures, the attack crew replaces contaminated protective clothing with clean clothing. For this purpose, Black Case Module 3 contains a total of 8 sets of change clothing consisting of sweatpants, T-shirts, and sweatshirt jackets. All T-shirts and jackets are provided with a reflective "Feuerwehr" print. All sets are hygienically packaged in vacuum bags.

All individual components and consumables can be reordered separately or purchased individually. For fire services equipped with a logistics support vehicle (GW-Logistik), we also offer – as a more comprehensively equipped alternative – our Black Box, a roll container containing all necessary and appropriate materials for operational hygiene at the fire ground.

Contents Module 3 – Change clothing: Art. No. 5.004.300

- 4x White Sets V, size L
- 4x White Sets V, size XXL
- Change clothing (sweatpants, T-shirt, sweatshirt jacket) in vacuum bags

Design & dimensions:

- Euroboxes 60 × 40 × 33.5 cm
- Open handles, with hinged lids

The Black Sets included in Module 2 contain the following:

Lieferumfang Black Set Crew

One set is required per responder.

- 1 pc. Black Bag removal sack with accompanying card, Ø 80 cm, height 110 cm
- 1 pc. PE bag for contaminated breathing apparatus, 70 × 110 cm
- 2 pcs. cable ties
- 2 pcs. Black Wipe skin cleansing wipes
- 1 pc. FFP2 mask
- 1 pair disposable nitrile gloves, size 10
- 1 pc. bag for personal items from protective clothing

Scope of delivery Black Set Support

One set is required per support worker.

- 1 pc. disposable PE apron
- 1 pc. disposable protective goggles
- 1 pc. PE bag, e.g. for used lung demand valve, 70 × 110 cm
- 1 pc. cable tie
- 2 pcs. Black Wipe skin cleansing wipes
- 1 pc. FFP3 mask
- 1 pc. sponge cloth
- 1 pair disposable nitrile gloves, size 10

Boot washing unit



Mobile boot washing unit with hand washing brush. Water supply is provided via a highly flexible hose included in the scope of delivery with a 1/2" quick coupling made of metal.

The fully metal frame construction of the boot washing unit can be set up ready for use by one person in just a few steps, is easy to clean after use, and can be folded down to a minimum storage volume using intelligent folding mechanisms.

This allows the boot washing unit to be stored in a space-saving manner in a storage box or stowed on a roll container in a vehicle.

Technical details

- Dimensions:
900 × 300 × 700 mm (L × W × H)
or 560 × 300 × 350 mm (L × W × H) in transport position
- Material: galvanized steel
- Weight: approx. 9 kg
- Grating and handrail foldable

Scope of performance

- Hand washing brush
- Hose for hand washing brush
- Supply hose with Gardena coupling
- Quick coupling
- 2-way valve with plug-in connectors, metal (Y-piece)
- Four replaceable brushes
- Grating for coarse sole cleaning
- Transport box (item no. 5.004.104), 600 × 400 × 335 mm (L × W × H), available as an option



Tarp set for operational hygiene at the fire ground



Tarp set for operational hygiene at the fire ground for marking the black/white zones, including an integrated tarp for a put down area.

The individual tarps can be used separately or as a set (connected by hook-and-loop fasteners). Durable PES fabric, plastic-coated on both sides; surface weight approx. 650 g/m²; resistant to abrasion (boots) and sharp objects (small stones) on the ground; washable. The tarp can be folded and stored in a Euro storage box measuring 600 × 400 × 270 mm.



Features

- The tarp set facilitates the spatial structuring of the decontamination area and enables a clear visual separation between the black and white zones at first glance. It provides a designated area where personnel can remove or put on clothing and are additionally protected from wet ground surfaces.
- Dimensions decontamination tarp set: 12.0 × 2.50 m
- Waterproof
- Washable

Scope of delivery

- 2 tarps black/white, 120 × 470 cm
- 1 tarp yellow with labelling "Ablage" (storage), 80 × 470 cm



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