

Fire-fighter's outfit: protective clothing

Instruction Manual



EN 469:2020

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO.,LTD.



Scope of application of firefighters' fire-fighting protective clothing

Firefighters firefighting protective clothing is designed in accordance with the requirements of EN469:2020, suitable for firefighters and social enterprises and public institutions full-time or part-time firefighters daily firefighting, rescue (but not applicable to the use of chemical hazards, poisonous gases, viruses, nuclear, radiation, and other special environments to wear), disaster relief when wearing.

1. Product structure:

Firefighters' fire-fighting protective clothing adopts the internationally recognized four-layer structure.

- ◆ Outer (Aramid check reinforced fabric)
- ◆ Waterproof breathable layer (Aramid non-woven fabric + flame retardant PTFE membrane)
- ◆ Insulation (Aramid non-woven fabric)
- ◆ Comfort Layer(Aramid viscose flame retardant fabric)

2. Style

◆Firefighter firefighting protective clothing adopts the upper and lower split structure, the upper garment is a four-layer non-removable loose structure; the lower pants are a four-layer non-removable backpack pants structure.

◆Protective clothing with 360° two- color flame-retardant light-emitting bands on the chest, hem, cuffs and bottom leg of the suit to ensure firefighter visibility and work safety.

◆ All pockets are professionally designed according to the

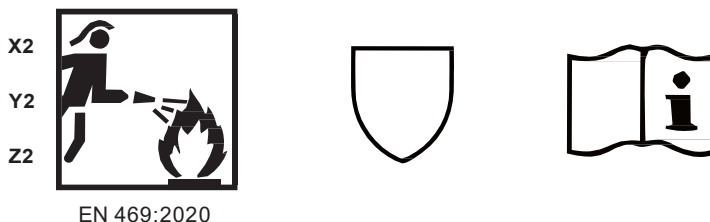
shape and usage habits of firefighting communication equipment and firefighting tools, etc. for easy storage and use. In addition, the bottom of the pockets are equipped with water leakage holes in order to mitigate water damage to clothing during firefighting.

◆Styles are categorized as without or with a backpack.

Colors available in navy blue, orange and yellow.

3. Technical Specifications

- ◆ Heat Transfer- Flame: LEVEL Xf2.
- ◆ Heat Transfer- Radiation: LEVEL Xr2.
- ◆ Resistance to Water Penetration (Moisture Barrier): LEVEL Y2.
- ◆ Resistance to Water Penetration (Seamed Specimen): LEVEL Y2.
- ◆ Water Vapor Resistance: LEVEL Z2.
- ◆ The minimum area for retro-reflective material(s) shall be not less than 0.13 m^2 and the minimum area for fluorescent material(s) and shall not be less than 0.2 m^2 .
- ◆ Outer ($195 \pm 10 \text{ g/m}^2$).
- ◆ Waterproof breathable layer ($160 \pm 8 \text{ g/m}^2$).
- ◆ Insulation ($70 \pm 4 \text{ g/m}^2$).
- ◆ Comfort Layer ($120 \pm 6 \text{ g/m}^2$).



4. Suitable for wearer's height range: 165cm~190cm.

5. Available sizes: 165,170,175,180,185,190.

6. Maintenance Requirement

Check that all parts are connected correctly, sealed reliably, and that garments are not aged, discolored, or torn. Check that the air supply unit is functioning properly and in accordance with the terms specified in the instruction manual for the configured air supply unit. Preparation before use: Select the appropriate protective clothing and air supply device according to the medium to be protected. Selection of suitable protective clothing, boots and gloves according to the height of the user and the size of the hands, feet and hands.

Cautions in use:

When used in conjunction with a portable air respirator, the user should evacuate the site immediately when the respirator gives a residual air alarm. When used in conjunction with a trolley-type long-tube respirator, the user should be supervised by a person at the parking device, who should always observe the changes in the pressure gauge value and keep in touch with the personnel working on the scene, and immediately notify the personnel at the scene to evacuate from the scene when an abnormality is detected in the supply of air to the respiratory device. Users should immediately evacuate the site when they feel breathless, unwell or when they find that the air supply line is ruptured, stuck, or when the protective clothing is torn apart and other malfunctions.

If a fire accident occurs at the site and is ineffective in extinguishing the initial fire, the site should be evacuated immediately.

7.Storage and maintenance after use

Protective clothing should not be folded and stacked, and should be hung in a clean and dry place to avoid sun exposure, toxic gases, corrosive and other injuries.

Immediately after use, protective clothing should be washed thoroughly with a neutral detergent to remove contaminant residues, then rinsed with clean water and hung in a cool, ventilated place to dry naturally.

8.Washing & Drying Instructions



Washing and
dehydration
Weak time
intensity



Non-bleachable



Hang drip-dry
in the shade



Ironing temperature
<150°C



Non-dry
clean

*Close all zippers and buckles before washing.

*Washing temperature should not exceed 40°C can ease the machine wash

*Use neutral detergent, no bleach.

*Hang dry in a well-ventilated shade and keep away from light.

*Medium temperature iron, the highest temperature of iron plate 150°C.

*Do not dry clean.

Noted:

Firefighter firefighting protective clothing includes the upper and lower body including the neck, arms to the wrists and legs to the bare feet are protected and covered by clothing, but the rest of the body is not protected and requires appropriate personal protective equipment to be adequately protected.