



Protective undergarments against harmful fire gases

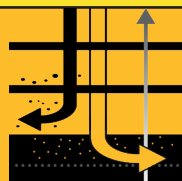
Firefighter's skin has so far lacked effective protection against harmful fire gases containing PAHs. The skin is the body's largest organ with a huge absorption capacity, which is exemplified by nicotine patches and analgesic ointment.



1000x

Independent tests of the CPP protective undergarment for firefighters show that the exposure of carcinogenic PAHs to the skin is reduced more than 1000 times compared to only 15 times with existing equipment.

The protective undergarment has a layer of fabric that filters particles and another layer of fabric with activated carbon that binds toxic gases preventing them from reaching the skin, whilst being air permeable.



Activated carbon

5 years

The undergarment's life span, in normal usage, is 5 years. The protection after 5 years is still much higher (approx. 20 times) compared to a standard undergarment.

In July 2022, WHO's specialized cancer agency (IARC) classified "occupational exposure as a firefighter" as carcinogenic to humans according to IARC's highest degree of certainty. The CPP undergarment is unique in having a CE certification "PPE for use against solid particulates".

CE

EN ISO 13982-1:2004
Category III



The CPP undergarment, based on military technology, has been developed together with the Swedish Firefighter's Cancer Foundation and has been tested by Chalmers University, Lund's University and IVL Swedish Environmental Research Institute.



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