



# Protective undergarments against harmful fire gases

Firefighters' 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.



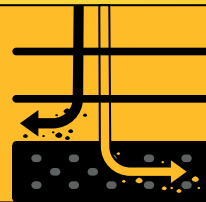
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Independent tests of the CPP protective undergarment for firefighters show that the exposure of carcinogenic PAHs to the skin is reduced more than 1000 times compared to only 15 times with existing equipment.

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 and functional.



**5** years

Recommended life span is approximately 5 years or 20 smoke dives.

In July 2022, WHO classified "occupational exposure as a firefighter" as carcinogenic to humans according to WHO's highest degree of certainty. The CPP undergarment is unique in having a CE certification "PPE...particle protection".



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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Contact us on [info@cppgarments.com](mailto:info@cppgarments.com)

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