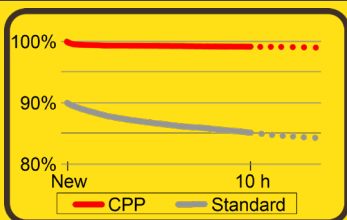




# Protective undergarments against toxic fire gases

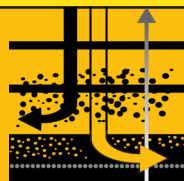
# 1000x

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.



Independent tests show that the amount of carcinogenic PAH substances to which the skin is exposed is approximately **100 times** greater with existing clothing compared to using the protective undergarment.

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



After a fire, the skin carries no lingering smell of smoke – clear **evidence** that it has been protected from **harmful contamination**.

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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