



Fire Fighter PPE Cleaning

With TERSUS, CO₂'s natural affinity for the common contaminants found on and in turnout gear, 50% more toxins are removed compared to conventional water-based cleaning.



Advanced decontamination in 65 minutes

Remove contaminants from all layers of PPE

Preserve the protective properties of each fabric layer

Gentle mechanical action reduces textile damage & increases life

The Problem

Infrequent, conventional water-based cleaning of fire PPE cannot thoroughly penetrate & remove contaminants from all layers of protective fabric. The residual contaminants embedded in the fabric are being increasingly being tied to higher rates of cancer in fire fighters. A study by the University of California-Davis and NIOSH found that firefighters experience more cancer diagnoses and cancer-related deaths than the average population (2016).

TERSUS Fire PPE Cleaning

Water-based cleaning requires substantial time to clean, with most time invested in the air drying step. TERSUS delivers decontaminated PPE in roughly 60-75 minutes.



Remove soils across layers



30-60% less energy use



Short cycle times

Test results of fire PPE cleaned in water verses the gear cleaned in TERSUS LCO₂ indicates that the TERSUS removed **85%** of the contamination verses **47%** from the water based system.

Centexbel Laboratories (Belgium)