

QUICK DECON HEAVY METAL (QDHM)

NFPA 1851 FIRE PROTECTION CLEANING SOLUTION

Safe, Quick and Easy removal of heavy metals from fire protection turnout garments

The Quick Decon Heavy Metal (QDHM) solution is a revolutionary product that ensures NFPA 1851 compliance by removing >95% of the harmful and toxic heavy metals from fire protection PPE. The solution, which can be applied as a 'quick pre-wash rinse' or added to the routine wash detergent is available in quart or gallon concentrations



BENEFITS

- Ensures 100% compliance with NFPA 1851 regulations for cleaning of Fire Protection PPE
- Simple cleaning process/procedures; quick spray pre-wash/pre-treat application via standard pressure washer or foam spray application washes away potentially harmful heavy metal contamination in minutes
- Non-Toxic to protective garments and human skin (FDA approved)
- Available in 'easy to handle and store' quart/gallon concentrated containers (custom concentrations for specific applications are available)

Third party testing concluded: No degradation of the materials due to the testing procedure or Quick Decon Actinide (QDA) was noticed.

APPLICATION STEPS

1. Hang garments to be treated on a sturdy rack or hanging bar.
2. Apply correct mix (mixed to match application device) of QDHM solution to pressure washer or foam spray device (RT Technologies can supply approved foam spray device if required)
3. Spray the solution on to the surface of the garments to be treated.
4. Wait 90 seconds, allowing the solution to soak/treat the surface of the garments.
5. Rinse the solution off of the garment surface with standard water rinse
6. Allow to dry or put into machine wash for standard soap detergent cleaning



Certified Independent Lab Test Results

Since it is difficult for end user to evaluate solution effectiveness and ultimate compliance to regulations, the National Fire Protection Association (NFPA) requires industrial cleaning solutions be certified to meet the compliance levels by independent 3rd party laboratories.

In 2022, an independent testing report from Thornton Laboratories Testing and Inspection Services Inc (Tampa, FL) has certified that the Quick Decon HM solution was effective in removing approximately 95% of the heavy metals deposited on Kevlar material during a testing routine that simulated laundering of fire fighter PPE. Thus, significantly exceeding the 75% NFPA Heavy Metal removal criteria.

This independent test took fabric swatches of Kevlar material meant to closely simulate the physical properties of fire fighter protective outer layer garments and impregnated them with heavy metal contamination designed to simulate elements deposited in outer the surface of garments of a fire fighter following fighting an active fire. When agitated, replicating an industrial washing machine, the QDA solution was effective in removing > 80% of the heavy metal contaminants initially present in the Kevlar material with one washing and > 95% after a second washing. (Full Test Report available on request.)

This finding is significant because NFPA 1851, Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting requires that Fire Protection garments must be laundered following use to a level whereby >75% of the Heavy Metals deposited in the fire protection garments must be removed during laundering procedures. NFPA 1851 states that compliance to this standard can be proven by showing that the laundered garments were decontaminated with a laundry solution that has demonstrated >75% effectiveness in heavy metal elimination via an approved testing lab's independent test. The QD HM Solution is >80% effective with one washing and >95% effective with two washings, in removal of the heavy metals.

REQUEST SAMPLES OR ADDITIONAL INFORMATION BELOW

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