NOTIFICATION: ANSELL TRELLCHEM® UPDATED TO NEW NFPA 1991:2016 STANDARD

As a leading manufacturer of chemical protective apparel, Ansell is pleased to inform you that TRELLCHEM® EVO and VPS FLASH have been certified to the newly published NFPA 1991:2016 standard, including optional flash fire and liquefied gas testing.


Key updates brought into effect with NFPA 1991:2016 and implemented on Trellchem® apparel with immediate effect

Product Design
- Ensemble must meet the base requirements of the standard without the use of an oversuit
- Oversuits are only permitted for the Optional Liquefied gas and flash fire certifications

Ensemble Integrity and Functionality Testing
- Man-in-Simulant (MIST) has replaced the SF6 (sulfur hexafluoride) for inward leakage
- Ensemble ‘field-of-vision’ test added
- Timed removal of hands from gloves and re-insertion now required (5 times repeat in <2 1/2 minutes)

Chemical Permeation Testing
- Requirement changed from “breakthrough time” (>60 min @ 0.1 µg/cm² min, 27°C) to “cumulative permeation” (< 6 µg/cm² during 60 min, 32°C)
- Same standard 21 Industrial Chemicals (ASTM F1001) plus CWAs and TICs

Physical Testing
- New visor strength test (“dart drop”), assessing high mass impact; no penetrating cracks or holes allowed!

Flame Resistance Test
- Base requirement = 3 second exposure (time increased, materials must pass requirement without the assistance of an oversuit)
- Chemical Flash Fire = 12 second flame exposure (no change from 2005)

- Shelf-life must be explicitly stated in years from the date of manufacture
- Technical data package must contain the actual test result according to a defined template
- The suit inner label must state the pressure test result immediately post-manufacturing

NEW TECHNOLOGY ADDED FOR 2016 by Ansell
The following new improved features available as standard on Trellchem® EVO and VPS Flash NFPA 1991:2016 ensembles:
- Trellchem® HCR Zipper; >1 hour penetration resistance to ASTM F1001 liquid Industrial Chemicals PLUS additional permeation testing against EN 943-2 chemical battery
- Ansell ChemTek™ 38-628 Viton/Butyl glove; combined with Ansell Barrier #02-100 inner glove and AlphaTec #58-800 Kevlar Overglove
- MICROCHEM® Exhaust Valve; exceeds the minimum requirements of NFPA 1991:2016