

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.

NFPA 1991:2016 (Standard on Vapor-Protective Ensembles for Hazardous Materials Emergencies) has recently come into force, replacing NFPA 1991:2005.

Effective **December 4th, 2016**, manufacturers will no longer be permitted to manufacture and sell vapor-protective ensembles certified to the 2005 edition. No immediate action is required to be taken with ensembles already in service, certified and labelling to the 2005 edition.

Key updates brought into effect with NFPA 1991:2016 and implemented on Trelchem® 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)

Product Information/User Manual

- 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 Trelchem® EVO and VPS Flash NFPA 1991:2016 ensembles:

- Trelchem® 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