

**ASTM F903-10 Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration
by Liquids, Procedure A - Safetyflex fabric**

| Challenge Chemical | Replicate | Average Sample Thickness (mm) | Test Temperature (°C) | Results after | | Final Results |
|---------------------|-----------|----------------------------------|--------------------------|----------------|-----------------|---------------|
| | | | | 5 min @ 0 psig | 10 min @ 2 psig | |
| Acetone | 1 | 0.363 | 22.1 | Pass | Pass | Pass |
| | 2 | 0.393 | | Pass | Pass | |
| | 3 | 0.386 | | Pass | Pass | |
| Acetonitrile | 1 | 0.386 | 22.2 | Pass | Pass | Pass |
| | 2 | 0.403 | | Pass | Pass | |
| | 3 | 0.392 | | Pass | Pass | |
| Carbon disulfide | 1 | 0.386 | 22.1 | Pass | Pass | Pass |
| | 2 | 0.391 | | Pass | Pass | |
| | 3 | 0.392 | | Pass | Pass | |
| Dichloromethane | 1 | 0.391 | 22.1 | Pass | Pass | Pass |
| | 2 | 0.414 | | Pass | Pass | |
| | 3 | 0.402 | | Pass | Pass | |
| Diethylamine | 1 | 0.392 | 22.5 | Pass | Pass | Pass |
| | 2 | 0.402 | | Pass | Pass | |
| | 3 | 0.405 | | Pass | Pass | |
| Ethyl acetate | 1 | 0.384 | 22.7 | Pass | Pass | Pass |
| | 2 | 0.392 | | Pass | Pass | |
| | 3 | 0.378 | | Pass | Pass | |
| n-Hexane | 1 | 0.400 | 22.7 | Pass | Pass | Pass |
| | 2 | 0.402 | | Pass | Pass | |
| | 3 | 0.401 | | Pass | Pass | |
| Methanol | 1 | 0.402 | 22.1 | Pass | Pass | Pass |
| | 2 | 0.395 | | Pass | Pass | |
| | 3 | 0.391 | | Pass | Pass | |
| Nitrobenzene | 1 | 0.400 | 22.8 | Pass | Pass | Pass |
| | 2 | 0.399 | | Pass | Pass | |
| | 3 | 0.388 | | Pass | Pass | |
| Sodium hydroxide | 1 | 0.390 | 23.1 | Pass | Pass | Pass |
| | 2 | 0.392 | | Pass | Pass | |
| | 3 | 0.389 | | Pass | Pass | |
| Sulfuric acid, 93% | 1 | 0.395 | 23.1 | Pass | Pass | Pass |
| | 2 | 0.396 | | Pass | Pass | |
| | 3 | 0.396 | | Pass | Pass | |
| Tetrachloroethylene | 1 | 0.409 | 23.2 | Pass | Pass | Pass |
| | 2 | 0.420 | | Pass | Pass | |
| | 3 | 0.411 | | Pass | Pass | |
| Tetrahydrofuran | 1 | 0.395 | 22.1 | Pass | Pass | Pass |
| | 2 | 0.404 | | Pass | Pass | |
| | 3 | 0.409 | | Pass | Pass | |
| Toluene | 1 | 0.411 | 22.1 | Pass | Pass | Pass |
| | 2 | 0.403 | | Pass | Pass | |
| | 3 | 0.413 | | Pass | Pass | |

* Testing finalized 2 October 2015

ASTM F739-12 Standard Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids or Gases under Conditions of Continuous Contact - Safetyflex fabric

| Challenge Chemical | Replicate | Average Sample Thickness (mm) | Test Temperature (°C) | Normalized Breakthrough Time (min) | Maximum Permeation Rate (µg/cm ² /min) | Minimum Detectable Rate (µg/cm ² /min) |
|------------------------|-----------|-------------------------------|-----------------------|------------------------------------|---|---|
| Sodium Hydroxide (50%) | 1 | NA | 27.0 | >480 | NA | 0.025 |
| | 2 | NA | 27.0 | >480 | NA | |
| | 3 | NA | 27.0 | >480 | NA | |
| Sulfuric Acid (98%) | 1 | NA | 27.0 | 72 | NA | 0.025 |
| | 2 | NA | 27.0 | 72 | NA | |
| | 3 | NA | 27.0 | 66 | NA | |

* Testing finalized 30 April 2018

| Challenge Chemical | Replicate | Average Sample Thickness (mm) | Test Temperature (°C) | Normalized Breakthrough Time (min) | Maximum Permeation Rate (µg/cm ² /min) | Minimum Detectable Rate (µg/cm ² /min) |
|-----------------------|-----------|-------------------------------|-----------------------|------------------------------------|---|---|
| Ethylene oxide, (Gas) | 1 | 0.394 | 27.0 | 9 | NA | 0.01 |
| | 2 | 0.398 | 27.0 | 9 | NA | |
| | 3 | 0.394 | 27.0 | 9 | NA | |

* Testing finalized 2 October 2015

Detailed test results are available upon request