

# DuraChem®

Non Encapsulating  
CBRN/HazMat Protection

## DuraChem 500

Fabric Colors  
Khaki Navy

## Redesigned DuraChem® 500 is Tactical, Tough and PFAS-Free.

- DuraChem 500 is dual-certified for both CBRN and Hazmat response to NFPA 1990 (1994) Class 1 and 2.
- Pressure testing capability for gas-tight assurance.
- Superior glove dexterity with touch screen capability enhances glove system functionality.
- Designed for exterior helmet wearability for tactical response.
- Available in front or rear entry styles, plus options such as reflective striping, equipment loops, pockets and hook and loop attachment points.
- Multi-use, single exposure and launderable up to five washes if not contaminated.
- Berry Compliant.
- Made in USA.



## DuraChem 500

### Chemical Test Battery\*

| Chemical            | Class 1 Minutes | Class 2 Minutes | Breakthrough Criteria   |
|---------------------|-----------------|-----------------|-------------------------|
| Acrolein            | >60             | >60             | >6.0 ug/cm <sup>2</sup> |
| Acrylonitrile       | >60             | >60             | >6.0 ug/cm <sup>2</sup> |
| Ammonia             | >60             | >60             | >6.0 ug/cm <sup>2</sup> |
| Chlorine            | >60             | >60             | >6.0 ug/cm <sup>2</sup> |
| Diethylamine        | >60             | NA              | >6.0 ug/cm <sup>2</sup> |
| Dimethyl Sulfate    | >60             | >60             | >6.0 ug/cm <sup>2</sup> |
| Ethyl Acetate       | >60             | NA              | >6.0 ug/cm <sup>2</sup> |
| Sulfuric Acid       | >60             | NA              | >6.0 ug/cm <sup>2</sup> |
| Tetrachloroethylene | >60             | NA              | >6.0 ug/cm <sup>2</sup> |
| Toluene             | >60             | NA              | >6.0 ug/cm <sup>2</sup> |

### Chemical Warfare Agent Data\*

| Chemical Agent    | Class 1 Minutes | Class 2 Minutes | Breakthrough Criteria   |
|-------------------|-----------------|-----------------|-------------------------|
| Soman             | >60             | >60             | 1.25 ug/cm <sup>2</sup> |
| Distilled Mustard | >60             | >60             | 4.0 ug/cm <sup>2</sup>  |

### Biohazard Testing

| Hazard      | Method     | Result |
|-------------|------------|--------|
| Blood/Viral | ASTM-F1671 | Pass   |

\*Class 1 chemical challenge levels are 20 g/m<sup>2</sup> for liquids and 10,000 ppm for gases and vapors. Class 2 chemical challenge levels are 10 g/m<sup>2</sup> for liquids and 350 ppm for gases and vapors. For detailed technical data and physical properties visit [kappler.com](http://kappler.com)

**Note:** These tests were performed in accordance with ASTM or other appropriate testing methods by independent laboratories. This data is derived from tests performed on material samples only, not finished garments, with exception of Pyroman full-body manikin test. For a complete list of chemicals tested and additional tech data visit [kappler.com](http://kappler.com).

**WARNING:** The information contained herein is based on technical data that Kappler believes to be reliable. It is subject to revision as additional knowledge and experience are gained. Please visit our website at [www.Kappler.com](http://www.Kappler.com) ("Kappler Website") for the most up-to-date product information and specifications. All pamphlets, brochures or other literature or printed material may contain information that is not as current as the information on Kappler's website. Additionally, there are uses, environments and chemicals for which Kappler products, garments and/or fabrics are unsuitable. The user has the responsibility to review all available data and verify the product, garment and/or fabric is appropriate for the intended use and meets all specified government and/or industry standards for such use. The user should review all available information on the Kappler Website, product labels and QR codes to understand the appropriate uses and limitations of Kappler products, garments and fabrics.

**CAUTION:** These garments are designed for protection of personnel against short duration thermal exposures. Do not use for firefighting applications. Minimize exposure to open flame or intense heat.

DuraChem 500 fabric does not contain PFAS chemistry.

#### Certified for the following face pieces:

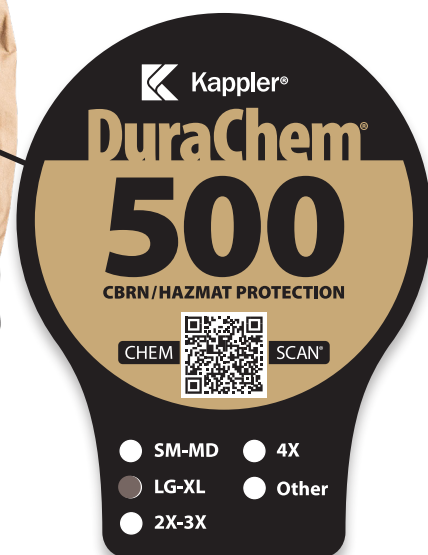
- Scott Safety AV-3000
- Scott Safety AV-3000 HT (Sure Seal)
- Draeger DHR 7000
- Draeger FPS 7000
- MSA Ultra Elite
- MSA G1

## DuraChem® 500



DuraChem 500 Style D5H458-94 is certified to NFPA 1990 (1994) as part of a system of components with other protective equipment.

Sure-Fit® face piece seal fits securely around respirator, eliminates need for taping.



**Our labels work harder, and smarter.** Kappler's unique SMART™ label makes sizing easy to see, and a quick QR code scan provides complete chemical data plus extensive suit details.

Rear-entry design shown enhances frontal splash protection.

Outer gloves must be worn for Class 1 and 2 compliance and a pair is included with every DuraChem 500 suit.

Adjustment straps at ankles plus other unique design features and available options.

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