

## FRONTLINE® 300

Kappler introduces the newest addition to the Frontline family of fabrics and apparel, designed to provide both chemical and flash protection in one garment.

Frontline 300 is ideal for petrochemical line break situations. This innovative garment was developed with detailed input from petrochemical Safety Officers. The result is a single-fabric solution for combined chemical-flash fire protection.

Frontline 300 offers radiant heat protection far superior to other so-called chemical/flash garments. Incorporating comparable protection to Kappler's Zytron® 300 chemical apparel, Frontline 300 provides excellent holdout for the most common petrochemical hazards.

From a design standpoint, an ensemble of hood, jacket and bib pants has proven to be the most versatile garment. The hood and jacket can be removed when not in the hot zone, thereby allowing the individual to ventilate. As with all Kappler apparel, this ensemble is a multi-use, single exposure garment.



### KAPPLER TECHNICAL DATA

#### ASTM F1001 Chemical Test Battery

Acetone	>480
Acetonitrile	>480
Carbon Disulfide	>480
Dichloromethane	10
Diethylamine	>480
Dimethylformamide	>480
Ethyl Acetate	>480
n-Hexane	>480
Methyl Alcohol	>480
Nitrobenzene	>480
Sodium Hydroxide	>480
Sulfuric Acid	>480
Tetrachloroethylene	>480
Tetrahydrofuran	>480
Toluene	>480
<b>GASES</b>	
Ammonia Gas	>480
Chlorine Gas	>480

#### Other Chemicals Tested

Benzene	>480
Diesel Fuel	>480
Diethylethanolamine	>480
Gasoline	>480
Hydrofluoric acid (48%)	>480
Kerosene	>480
Methanol	>480

### APPLICATIONS

- › Petrochemical operations
- › Line maintenance
- › Tank cleaning
- › Refueling situations

### FEATURES AND BENEFITS

- › Ensemble garment for excellent versatility.
- › Hood includes large, expanded-view face shield.
- › Seams are sewn and then heat-sealed/taped.

### AVAILABLE STYLES

- › **Jacket - F3H675:** Zip front, raglan sleeve jacket, double storm flaps with FR hook & loop closure, collar, and cone inserts at sleeves.
- › **Bib Trouser - F3H660:** Bib trouser with adjustable webbing straps with snap-lock closure.
- › **Hood - F3H750:** Flat back, seams are sewn and then heat-sealed/taped.
- › **Ensemble - Z3H630:** Includes Jacket, Bib Trouser and Hood.

Frontline 300 has been tested for thermal protective performance (TPP) in accordance with ISO 17492, *Clothing for protection against heat and flame*. Frontline 300 showed a TPP value of 16 which exceeds the minimum required by both NFPA 1991/1992, and NFPA 2112. Frontline 300 has been tested for flame resistance in accordance with ASTM F1358 and meets requirements of NFPA 1991/1992. Frontline 300 has been tested for flame resistance in accordance with ASTM 6413 and meets requirements of NFPA 2112.

Sources for all chemical test data are independent laboratories. All tests were performed under laboratory conditions and not under actual use conditions. Tests were performed on material samples, not actual garments. All chemicals tested at 95% and 75°F unless otherwise noted.

**Warning:** There are uses, environments and chemicals for which these fabrics are unsuitable. It is the responsibility of the user to review available data and verify that the fabric is appropriate for the intended use and meets all specified government and industry standards. **Caution:** Do not use for fire fighting protection. This garment is designed for escape purposes only. Avoid open flame or intense heat.