

ZYTRON® 500

Zytron 500 is top of the class – and the classic responder choice for hazmat and other demanding situations. It's tough, built for mobility, and based on patented technology that created the first material to survive eight full hours against the ASTM F1001 Test Battery with no breakthrough. With that kind of Kappler heritage built into the fabric, it's no wonder that responders around the world trust Z500 garments for ultra-demanding Level A and Level B applications. Available in coveralls and a range of total encapsulating suits. Color is high visibility Orange. Also available in Charcoal Gray.

Z500 STYLE DETAILS

- › Gas-tight styles for Level A protection include front and rear entry, flat back or expanded back. Zytron 500 fabric also available in splash suits and coveralls.
- › Hazmat styles include double-taped seams – seams sewn then hot-air taped inside and out.
- › Large, expanded-view face shield of 40 mil PVC. Hazmat styles include additional 5 mil FEP overlay lens.
- › Easy-to-reach 48" (122 cm) gas-tight PVC zipper, with double storm flap and hook-and-loop closure.
- › Two covered one-way exhaust valves.
- › Attached sock boots with boot flaps for added protection.
- › Glove system includes field replaceable Butyl gloves. Hazmat styles include film liner glove.
- › Roomy tapered sleeves and ergonomic garment design allow easy mobility.
- › For complete style details visit kappler.com

APPLICATIONS

- › Hazmat response
- › Chemical handling
- › Refueling operations
- › Petro-chemical refinery operations
- › Hazardous material clean-up and remediation
- › CWA incineration/remediation/disposal



ChemScan™ labels – another Kappler innovation

Just scan the label with your mobile phone's QR reader for a complete list of chemicals tested against your garment's protective fabric. Quick, accurate and only from Kappler – another industry first.



Sock boots with flared boot flaps for easy donning and doffing. Boot flaps have hemmed edges.



Expanded width face shield of 40 mil PVC with optional 5 mil FEP overlay lens.



Gas-tight PVC zipper covered by a double storm flap with hook and loop closures.

ASTM F1001 Chemical Test Battery

Chemical	Breakthrough Time (normalized)
Acetone	>480
Acetonitrile	>480
Carbon Disulfide	>480
Dichloromethane	>480
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

GASES	
Ammonia Gas	>480
1,3 Butadiene Gas	>480
Chlorine Gas	>480
Ethylene Oxide Gas	>480
Hydrogen Chloride Gas	>480
Methyl Chloride Gas	>480

For complete list of chemicals tested, visit kappler.com

Chemical Warfare Agent Data

Chemical Agent	Breakthrough Time (Minutes)	Breakthrough Criteria
Bis (2-chloroethyl) sulfide (Mustard:HD)	>480	4.0 ug/cm ²
Isopropyl methylfluorophosphonate (Sarin:GB)	>480	1.25 ug/cm ²
Chlorovinyl arsinedichloride (Lewisite:L)	>480	4.0 ug/cm ²
O-ethyl S-(2-diisopropylaminoethyl) methylphosphonothiolate (Nerve:VX)	>480	1.25 ug/cm ²

Typical Physical Properties Measured per ASTM D751

Test Method	Results
Grab Tensile Strength MD*	80 / 359
Grab Tensile Strength CD*	73 / 325
Tear Resistance MD*	27 / 120
Trapezoid Method CD*	15 / 67
Ball Burst	79 / 351

MD: Machine Direction CD: Cross Direction

Sources for all 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.

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 protection. Avoid open flame or intense heat.

