



Know What You're Getting Into.®

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Product Specification

Zytron[®] 500

**Style: Z5H582
Vapor and Liquid Protective
Total Encapsulating**



Design Requirements

1. The garment shall be constructed from composite fabric comprised of a five layer barrier film laminated on the outside of a non-woven substrate and a seven layer barrier film laminated on the inside. Available in Charcoal or Orange.
2. Outer seams shall be stitched with thread and covered with heat sealed seam tape on the inside and outside of the seam. The seam tape used to cover the seams shall be of a similar composition as the films used in the base fabric.
3. The garment shall be a front entry, expanded back design with a 48" gas tight urethane coated zipper. The zipper shall have heavy-duty molded nylon teeth. Overlapping double storm flaps made of the base fabric shall cover the zipper. The storm flaps shall have hook and loop fasteners.
4. The expanded view visor shall be made of a 40 mil FR PVC with a 5 mil FEP overlay and an anti-fog layer inside for improved visual acuity.
5. The expanded backpack of the garment shall be sized to accommodate an SCBA.
6. The 2N1[®] glove system shall consist of an integrated nylon film liner glove inside a 25 mil Butyl glove and attached to the garment with a ring and clamp.
7. The garment shall contain an internal 2" waist belt system for support and improved fit.

8. The garment shall be constructed with two one-way Pirelli exhalation valves. The valves shall be protected from splash by valve covers made of the garment material.
9. The garment shall be constructed with sock booties made from the garment material to allow the use of a replaceable outer boot. The boot area shall be covered by a splash guard made of the garment material. Sock booties are designed to be worn inside outer boots.
10. Garment is packed one per case. Garment must be packaged in a reusable storage bag with carrying handles. Bag shall have zipper closure and marked with Kappler logo.
11. Combination sized garment: XS, SMMD, LGXL, 2X3X, 4X and 5X.

Performance Requirements

1. Garment fabric shall be tested to ASTM F 739, Standard Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids or Gases under Conditions of Continuous Contact, and exhibit no breakthrough for at least eight hours against a minimum of 250 chemicals.

Service Requirements

1. The manufacturer shall have the HazMatch® technical information support system that includes an online and app based software selection program. The app based software can be found at the Apple Store or on Google Play.
2. The garments shall have a logo that indicates sizing and includes the ChemScan™ QR code that provides real time access to chemical test data for the fabrics.
3. The garments shall be manufactured in the USA.
4. The manufacturer shall have a 24 hour emergency contact number for special response need.

Warning: This information is based on technical data that Kappler believes to be reliable. It is subject to revision as additional knowledge and experience are gained. The website will contain Kappler's most up to date product information and customers who receive pamphlets, brochures or other literature should be aware that such "hard copy" information may not be as current as the information on Kappler's website. Customers should also recognize that there are uses, environments and chemicals for which Kappler products, garments and/or fabrics are unsuitable. It is the responsibility of the user to review available data and verify that the product, garment and/or fabric is appropriate for the intended use and meets all specified government and/or industry standards. Also, the customer should review all available information on the website to understand the uses- and limitations- on ALL products, garments and fabrics which Kappler makes available.

CAUTION: Do not use for fire protection. Avoid open flame or intense heat.

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