

KAPPLER PRODUCT GUIDE



Kappler®

Know What You're Getting Into.®

With Kappler, You Always Know What You're Getting Into.

For more than four decades Kappler has defined the protective clothing industry with patented fabrics, innovative seaming technology and unique garment designs that deliver exceptional protection. We are a family-owned business providing American-made quality for added assurance. From fabric development to packing the box, quality is an integral component to every Kappler garment. "Keeping bad stuff off people" is our mission and the motivation behind what we do. The Kappler brand on your protective suit means you always know what you're getting into.

Three Steps To Suit Selection.

Once a **hazard is identified** and a **hazard assessment is completed**, the steps below describe the basic process for determining the right suit for your application. HazMatch®, Kappler's suit selection tool, can assist in your assessment. It is backed by third party test data to ensure your suit has the right fabric, seam, and style.



Use HazMatch® online at kappler.com or get the app for iOS and Android devices.

1 Pick A Fabric.

Find a fabric proven against your hazard.

BIOHAZARD & GENERAL PROTECTION



BIOHAZARD & CHEMICAL PROTECTION



BIOHAZARD, CHEMICAL, FR & THERMAL PROTECTION



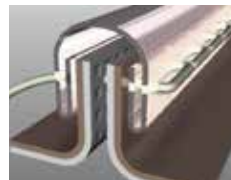
2 Pick A Seam.

Ensure that your garment is constructed to match the state of the hazard—solid, liquid, or gas.



SERGED

For particulates plus residual liquids to light splash where no skin hazard is involved.



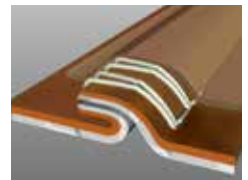
BOUND

For particulates plus residual liquids to light splash where skin hazard is involved, and moderate splash for non-skin hazards.



ULTRASONIC

For particulates and light to moderate splash where skin and vapor hazards are present.



HEAT SEALED/TAPED

For particulates, moderate to heavy splash where skin and vapor hazards are present.

3 Pick A Style.

Choose a style that meets your level of exposure.



Standard Styles

Kappler offers many garment types across our range of proven protective fabrics. Specific style numbers differentiate the exact features and details of a given suit. The color coding system in the legend at right corresponds to the hazard protection categories of our suits.

LEGEND - LEVELS OF PROTECTION

General • Biohazard

Biohazard • Chemical

Biohazard • Chemical
FR • Thermal

Coveralls

Collar, Front Entry Zipper, No Elastic. Zytron Fabrics have Storm Flap.

ProVent® Fabric
PVS412 • *Serged*

Zytron® 200 Fabric

Z2H412 • *Heat Sealed/Taped – (Double Storm Flaps with Hook & Loop Closure)*

Zytron® 300 Fabric

Z3H412 • *Heat Sealed/Taped – (Double Storm Flaps with Hook & Loop Closure)*

12 Style



Coveralls

Attached Hood with Elastic Face Opening, Front Entry Zipper with LongNeck™ Respirator-Fit Closure, Single Storm Flap with Adhesive Tape Closure, Elastic at Back Waist, Elastic Wrists (with Finger Loops), Attached Skid Resistant Shoe/Boot Covers.

ProVent® Fabric

PPH424 • *Heat Sealed/Taped*

24 Style



Coveralls

Attached Hood with Elastic Face Opening, Front Entry Zipper with LongNeck™ Respirator-Fit Closure, Single or Double Storm Flaps, Elastic Wrists and Ankles.

ProVent® Fabric

PVS428 • *Serged – (Single Storm Flap with Adhesive Tape Closure, Elastic at Back Waist)*

ProVent® Plus Fabric

PPH428 • *Heat Sealed/Taped – (Single Storm Flap with Adhesive Tape Closure, Elastic at Back Waist and Finger Loops)*

28 Style



Coveralls

Attached Hood with Elastic Face Opening, Front Entry Zipper with LongNeck™ Respirator-Fit Closure, Elastic Wrists and Attached Shoe/Boot Covers. Zytron Fabrics have Storm Flap.

ProVent® Fabric
PVS414 • *Serged*

Note: Shoe/Boot Covers are Skid Resistant.

Zytron® 100XP Fabric

Z1S414XP • *Serged*
Z1B414XP* • *Bound – (Single Storm Flap with Adhesive Tape Closure)*

Zytron® 200 Fabric

Z2B414 • *Bound – (Single Storm Flap with Adhesive Tape Closure)*

Z2H414* • *Heat Sealed/Taped – (Double Storm Flaps with Hook & Loop Closure)*

Zytron® 300 Fabric

Z3H414 • *Heat Sealed/Taped – (Double Storm Flaps with Hook & Loop Closure)*

14 Style



Coveralls

Collar, Front Entry Zipper, Single Storm Flap with Adhesive Tape Closure, Elastic at Back Waist, Elastic Ankles and Wrists (with Finger Loops) and Attached Skid Resistant Shoe/Boot Covers.

ProVent® Plus Fabric

PPH425 • *Heat Sealed/Taped*

25 Style



Coveralls

Attached Hood with Elastic Face Opening, Front Entry Zipper with LongNeck™ Respirator-Fit Closure, Double Storm Flaps with Hook & Loop Closure, Elastic Wrists and Attached Sock Booties with Splash Guards.

Zytron® 200 Fabric

Z2H426 • *Heat Sealed/Taped*

Zytron® 300 Fabric

Z3H426 • *Heat Sealed/Taped*

Zytron® 300 FR Fabric

Z3H426FR • *Heat Sealed/Taped*

Zytron® 500 Fabric

Z5H426 • *Heat Sealed/Taped*

26 Style



Coveralls

Attached Hood with Sure-Fit® Respirator Face Piece Seal, Front Entry Zipper, Double Storm Flaps with Hook & Loop Closure, Permanently Attached 22 mil Bromobutyl Gloves, Attached Sock Booties with Splash Guards, Hook & Loop Fasteners at Ankles.

Zytron® 100XP Fabric

Z1S457XP-BC • *Heat Sealed/Taped*

DuraChem® 500 Fabric

D5H457 6E • *Heat Sealed/Taped - (Removable Touchscreen Overgloves)*

57 Style



Coveralls

Collar, Front Entry Zipper, Elastic Wrists and Ankles. Zytron Fabrics have Storm Flap.

ProVent® Fabric
PVS417 • *Serged*

Zytron® 200 Fabric

Z2B417 • *Bound – (Single Storm Flap with Adhesive Tape Closure)*

Z2H417 • *Heat Sealed/Taped – (Single Storm Flap with Adhesive Tape Closure)*

Zytron® 300 Fabric

Z3H417 • *Heat Sealed/Taped – (Double Storm Flaps with Hook & Loop Closure)*

17 Style



Training Suits

Front or Rear Entry Zipper, Double Storm Flaps with Hook & Loop Closure, Large PVC Visor, Expanded Back, Permanently Attached PVC Gloves, Attached Sock Booties with Splash Guards and 1 Exhaust Port.

Zytron® 500 Fabric

Z5S555 • *Single Needle Lockstitch – (Front Entry)*

Z5S556 • *Single Needle Lockstitch – (Rear Entry)*

Zytron® 100XP Fabric

Z1B556XP* • *Bound – (Rear Entry)*

PVC

VCS555 • *Single Needle Lockstitch – (Front Entry)*

VCS556 • *Single Needle Lockstitch – (Rear Entry)*



Training Coveralls

Attached Hood with Sure-Fit® Respirator Face Piece Seal, Front Entry Zipper, Single Storm Flap with Hook & Loop Closure, Permanently Attached 22 mil Bromobutyl Gloves with Removable Touchscreen Overgloves, Attached Sock Booties with Splash Guards, Hook & Loop Fasteners at Ankles.

DuraChem® 500 Fabric

D5S457 • *Single Needle Lockstitch – (Front Entry)*

D5S458 • *Single Needle Lockstitch – (Rear Entry)*



* Indicates Berry Compliant version of style is available, please contact Customer Service for details.

Standard Styles

Gowns

Wrap-Around Gown. Hook & Loop Fastener at Neck, Tie Closure at Waist, Knit Cuffs, Non-Sterile.



ProVent® Fabric
PVS101 • Serged

ProVent® Plus Fabric
PPN101 • Ultrasonic/Taped

Aprons

Long Sleeved Apron. Tie Closure at Waist, Elastic Wrists.



DuraChem® 200 FR Fabric
D2H842 CP • Heat Sealed/Taped – (Hook & Loop Fastener at Neck, FR Webbing and Buckle Closure, Glove Cone Inserts (AGOAR) with Attached CP Cuff option)



Zytron® 200 Fabric
Z2B847 • Bound

Zytron® 300 Fabric
Z3H847 • Heat Sealed/Taped – (Hook & Loop Fastener at Neck)

Shoe/Boot Covers

Knee-High Shoe/Boot Cover.



ProVent® Fabric
PVN023 • Ultrasonic – Elastic at Top and Ankle, Gray Skid Resistant Boot.

ProVent® Plus Fabric
PPN026 • Ultrasonic – Hook & Loop Fastener at Ankle, Elastic at Top, 2-Ply Sole.

Sleeves

Elastic at Both Ends.



Zytron® 200 Fabric
Z2H051 • Heat Sealed/Taped

Jackets

Front Entry Zipper with Hook & Loop Closure.



Zytron® 300 Fabric
Z3H670 • Heat Sealed/Taped – (Double Storm Flaps with Hook & Loop Closure, Elastic Wrists)
Z3H670 CP • Heat Sealed/Taped – (Double Storm Flaps with Hook & Loop Closure with CP Cuff option)



Half C Jacket

Attached Hood with 20 mil PVC Visor, Double Storm Flaps with Hook & Loop Closure, CP Cuff option.



Zytron® 300 Fabric
Z3H763 • Heat Sealed/Taped
Z3H763 30 • Heat Sealed/Taped (with Air System)

Hood

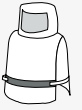
Attachable with Elastic Face Opening and FR Hook & Loop Closure.



DuraChem® 200 Fabric
D2H708 • Heat Sealed/Taped

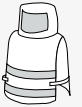
Overhoods

20 mil PVC Visor, Waist Length with Hook & Loop Fasteners on Sides.



Zytron® 300 Fabric
Z3H750 • Heat Sealed/Taped

Zytron® 500 Fabric
Z5H750 • Heat Sealed/Taped – (40 mil PVC Visor)



DuraChem® 200 Fabric
D2H758 • Heat Sealed/Taped – (40 mil PVC Visor, Retroreflective Tape)

Bib Overalls

Adjustable Webbing Straps and Snap-Lock Fasteners.



Zytron® 300 Fabric
Z3H660 • Heat Sealed/Taped

Thermal Liners

Kappler Fleece Thermal Liners provide added thermal protection when worn under any of our fabrics.



TFS441 • Serged – Fleece Thermal Liner Coverall. Collar, Front Entry Zipper, Adjustable Wrists and Ankles with FR Hook & Loop Closure.



TFS663 • Serged – Fleece Thermal Liner Pants. Elastic Waist and Ankles.



TFS681 • Serged – Fleece Thermal Liner Jacket. Collar, Front Entry Zipper, Adjustable Wrists with FR Hook & Loop Closure.

Splash Total Encapsulating Suits

Front or Rear Entry Zipper, Expanded or Flat Back, Double Storm Flaps with Hook & Loop Closure, Large 20 mil PVC Visor or Expanded View AntiFog Visor System, Elastic Wrists, Attached Sock Booties with Splash Guards and 1 Exhaust Port.



Zytron® 100XP Fabric
Z1B574XP-BC • Bound – (Front Entry, Expanded Back, Single Storm Flap with Adhesive Tape Closure, Permanently Attached Bromobutyl Gloves)

Zytron® 200 Fabric
Z2B571 • Bound – (Rear Entry, Expanded Back, Single Storm Flap with Adhesive Tape Closure)
Z2H571 • Heat Sealed/Taped – (Rear Entry, Expanded Back)
Z2H371 • Heat Sealed/Taped – (Rear Entry, Flat Back, Side Air Inlet)



Zytron® 300 Fabric
Z3H571 S10 • Heat Sealed/Taped – (Rear Entry, Expanded Back, Attached Neoprene Glove Size 10)



Zytron® 500 Fabric
Z5H572 • Heat Sealed/Taped – (Front Entry, Expanded Back, Expanded View AntiFog Visor System)
Z5H573 • Heat Sealed/Taped – (Rear Entry, Expanded Back, Expanded View AntiFog Visor System)

* Indicates Berry Compliant version of style is available, please contact Customer Service for details.

Vapor Total Encapsulating Suits

Front or Rear Entry AquaSeal®, Gas-Tight Zipper, Double Storm Flaps with Hook & Loop Closure, Expanded View AntiFog Visor System, Expanded or Flat Back, Attached Field Replaceable Butyl Gloves, Attached Sock Booties with Splash Guards and 2 Exhaust Valves.



Zytron® 500 Fabric
Z5H552 • Heat Sealed/Taped – (Front Entry, Expanded Back)

Z5H553 • Heat Sealed/Taped – (Rear Entry, Expanded Back)

Z5H352 • Heat Sealed/Taped – (Front Entry, Flat Back - Must Specify Pass-Thru Option)

Z5H353 • Heat Sealed/Taped – (Rear Entry, Flat Back - Must Specify Pass-Thru Option)

Z5H582 • Heat Sealed/Taped On Inner And Outer Seams – HazMat Model (Front Entry, Expanded Back, Knee Reinforcements, 2N1® Glove System)

Z5H583 • Heat Sealed/Taped On Inner And Outer Seams – HazMat Model (Rear Entry, Expanded Back, Knee Reinforcements, 2N1® Glove System)

Z5H382 • Heat Sealed/Taped On Inner And Outer Seams – HazMat Model (Front Entry, Flat Back, Knee Reinforcements, 2N1® Glove System, Must Specify Pass-Thru Option)

Z5H383 • Heat Sealed/Taped On Inner And Outer Seams – HazMat Model (Rear Entry, Flat Back, 2N1® Glove System, Knee Reinforcements, Must Specify Pass-Thru Option)



A Note About NFPA-Certified Apparel.

Kappler offers a wide range of NFPA-Certified apparel for protection against chemical, biohazard, thermal and electric arc hazards. NFPA 1990 Standard for Protective Ensembles for Hazardous Materials and CBRNE Operations was effective as of January 24, 2023. This consolidated standard is reflected in the style details shown below. For more details about the consolidation and Kappler's NFPA-Certified products please scan the QR code.



Scan the QR code to view our NFPA protective apparel reference guide.

NFPA 1990 (1991)

Vapor Total Encapsulating Suit. Aqua-Seal® Gas-Tight Zipper, Double Storm Flaps with FR Hook & Loop Closure, Expanded View AntiFog Visor System, Expanded Back, Field Replaceable 2N1® Glove System with Removable Overglove, Attached Sock Booties with Splash Guards, Knee Reinforcements and 2 Exhaust Valves.



Frontline® 500 Fabric

F5H582-91* • Heat Sealed/Taped On Inner And Outer Seams (Front Entry)

F5H583-91* • Heat Sealed/Taped On Inner And Outer Seams (Rear Entry)

NFPA 1990 (1994) Class 1 & 2

Hazmat/CBRNE Ensemble. Coverall with Attached Hood with Sure-Fit® Respirator Face Piece Seal, AquaSeal® Gas-Tight Zipper, Double Storm Flaps with Hook & Loop Closure, Permanently Attached 22 mil Bromobutyl Gloves with Removable Touchscreen Overgloves, Attached Sock Booties with Splash Guards and Hook & Loop Fasteners at Ankles.



DuraChem® 500 Fabric

D5H457-94* • Heat Sealed/Taped – (Front Entry)

D5H458-94* • Heat Sealed/Taped – (Rear Entry)

NFPA 1990 (1994) Class 2

Vapor Total Encapsulating Suit. Front Entry AquaSeal® Gas-Tight Zipper, Expanded View AntiFog Visor System, Double Storm Flaps with Hook & Loop Closure, Expanded Back, Field Replaceable 2N1® Glove System with Removable Overglove, Attached Sock Booties with Splash Guards, 2 Exhaust Valves and Radio Pocket. Berry Compliant.



Zytron® 500 Fabric

Z5H582-94C2RPBC • Berry Compliant, Heat Sealed/Taped On Inner And Outer Seams (Front Entry)

Z5H583-94C2RPBC • Berry Compliant, Heat Sealed/Taped On Inner And Outer Seams (Rear Entry)



NFPA 1990 (1992)

Coverall. Attached Hood with Elastic Face Opening, Front Entry Splash Resistant Coated Zipper with Long-Neck™ Respirator-Fit Closure, Double Storm Flaps with Hook & Loop Closure, Elastic Wrists, Attached Sock Booties with Splash Guards.



Zytron® 300 Fabric

Z3H426-92 • Heat Sealed/Taped

Z3H428-92* • (No Sock Booties)

Coverall. Attached Hood with Sure-Fit® Respirator Face Piece Seal, Splash Resistant Coated Zipper, Double Storm Flaps with Hook & Loop Closure, Attached 2N1® Glove System and Attached Sock Booties with Splash Guards.



Zytron® 300 Fabric

Z3H452-92 • Heat Sealed/Taped – (Front Entry)

Z3H456-92 • Heat Sealed/Taped – (Rear Entry)



Splash Protective Coverall. Attached Hood with Elastic Face Opening, Front Entry Diagonal Splash Resistant Coated Zipper, Double Storm Flaps with Hook & Loop Closure, Attached Gloves and Sock Booties with Splash Guards.



Zytron® 300 Fabric

Z3H427-92 • Heat Sealed/Taped – (has attached 2N1® Glove System)

Z3H437-92 • Heat Sealed/Taped – (has Neoprene Gloves)

Splash Protective Total Encapsulating Suit. Front or Rear Entry Zipper, Double Storm Flaps with Hook & Loop Closure, Expanded View AntiFog Visor System, Expanded Back, Permanently Attached Neoprene Gloves, Sock Booties with Splash Guards and 2 Exhaust Valves.



Zytron® 300 Fabric

Z3H576-92 • Heat Sealed/Taped – (Rear Entry)

Z3H577-92 • Heat Sealed/Taped – (Front Entry)



NFPA 1990 (1992) & NFPA 2112

Also conforms to requirements of NFPA 70E, ASTM F2733, ASTM F1891, and ANSI/ISEA 107 Type P, Class 3 (ANSI/ISEA 107 does not apply to Navy fabric). DuraChem 200 fabric has been evaluated against multiple molten metal challenges per ASTM F955.

Multi-Piece Configuration.

Includes Jacket (D2H680-9212),** Bib Overalls (D2H662-9212),** Attachable Hood (D2H708) and Glove Cone Inserts (AG0AR).



DuraChem® 200 Fabric

D2H632-9212 • Heat Sealed/Taped

D2H632-9212 CP • Heat Sealed/Taped – (CP Cuff option)

Multi-Piece Configuration.

Includes Jacket (D2H680-9212),** Bib Overalls (D2H662-9212)** and Glove Cone Inserts (AG0AR).



DuraChem® 200 Fabric

D2H634-9212 • Heat Sealed/Taped

D2H634-9212 CP • Heat Sealed/Taped – (CP Cuff option)

Coverall. Collar, Front Entry Splash Resistant Coated Zipper, Single Storm Flap with FR Hook & Loop Closure, Retroreflective Tape, FR Hook & Loop Fasteners at Wrists & Ankles and Glove Cone Inserts (AG0AR).



DuraChem® 200 Fabric

D2H440-9212 • Heat Sealed/Taped

D2H440-9212 CP • Heat Sealed/Taped – (CP Cuff option)

Coverall. Includes Coverall (D2H440-9212), Attachable Hood (D2H708) and Glove Cone Inserts (AG0AR).



DuraChem® 200 Fabric

D2H443-9212 • Heat Sealed/Taped

D2H443-9212 CP • Heat Sealed/Taped – (CP Cuff option)

* Indicates Berry Compliant version of style is available, please contact Customer Service for details.

** Indicates NFPA-Certified replacement components available for individual purchase, see pricelist for details.

General • Biohazard



Biohazard • Chemical



Biohazard • Chemical • FR • Thermal



Thermal Protection From Kappler.

Kappler is a pioneer in the development of fabrics that combine thermal protection with chemical, FR and biohazard protection. From superheated steam to below-zero temperature applications, the innovative fabrics highlighted here address protection for a wide range of thermal hazards.



Frontline® 500

Proven three-way protection for chemical flash-fire situations, with broad chemical holdout plus flame resistance, radiant heat, and below-zero temperature protection.



DuraChem® 500

Dual-certified to NFPA 1990 (1994), this innovative tactical-style garment provides affordable chemical, thermal and flash-fire protection for general hazmat and CBRNE incident response.



DuraChem® 200

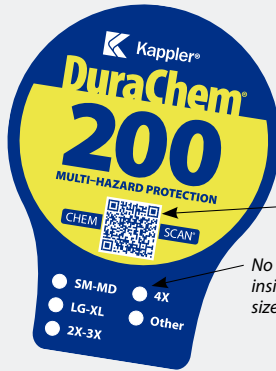
A multi-purpose fabric that combines thermal with chemical FR, Arc Flash, Steam and Hot Water, and Molten Metal Splash protection.

Kappler Fleece Thermal Liners provide added thermal protection when worn under any of our fabrics. See page 4 for style options.

Innovation That Works.

Kappler's SMART™ Labels Work Harder.

Our QR code labels provide quick access to third-party chemical test data and simplify suit selection.



Scan the QR code for chemical test data and detailed suit information.

No more searching inside the suit for a size label.



2N1® Glove System.

Kappler's 2N1® Glove system prevents liner glove from inverting when hands are removed while also providing improved comfort and manual dexterity.

See Better, Work Safer.

Thanks to patented technology, Kappler's AntiFog Expanded View Visor eliminates fogging on gas-tight suits.

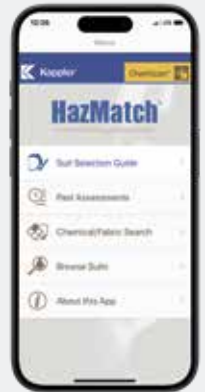


Comparison shows Standard Visor vs. AntiFog Visor.

HazMatch®. The App Is Free, The Data Priceless.

With Kappler's data-driven suit selection tool, you can search by hazard or fabric to determine the right suit for your application. Save your results to meet OSHA Hazard Assessment requirements.

Use it at kappler.com or get the app.



Support Products.

Learn about our comprehensive line of support products – visit kappler.com/support-products.



ChemTape® is the industry's only chemical-resistant solution for taping around gloves, boots and boot flaps.
99402YW



Glove cone inserts are used to interface glove to suit providing a smooth taping surface. For use with ChemTape®.
AG0AR



Kappler's Digital Pressure Test Kit provides efficient and accurate pressure test readings for an improved user experience.
AKMOC



Know What You're Getting Into.™

Kappler, Inc.

P.O. Box 490 | Shipping: 55 Grimes Drive | Guntersville, Alabama 35976
Toll Free: 800.600.4019 | Local: 256.505.4005 • Fax: 256.505.4151
email: customerservice@kappler.com



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 also should 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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