

DUPONT™ TYCHEM® F

DUPONT PERSONAL PROTECTION

DuPont™ Tychem® F garments are made of a proprietary barrier film laminated to DuPont™ Tyvek®. The fabric provides at least 30 minutes of protection against more than 180 chemical challenges, including chemical warfare agents and toxic industrial chemicals. Tychem® F garments are strong, durable and lightweight and are available in low-visibility gray fabric making them a preferred choice for law enforcement, emergency medical services (EMS) technicians and military personnel.

Tychem® F Garment Features and Benefits:

- Taped seams provide strong chemical resistance against heavy liquid splashes
- The sewn seam is covered with a strip of compatible chemical-resistant tape through heat sealing
- Three-piece hood design with longer zipper that extends to chin for complete coverage of neck area with elastic for good fit around a respirator
- Storm flap covers zipper which can be sealed by the wearer with adhesive strip to prevent intrusion
- Elastic opening for tighter fit at wrist
- TF 145 T has elastic opening for tighter fit at ankle
- TF 169 T has attached socks



TF 169 T

Styles Available

Coverall

TF 145 T GY xx 0006 TV³
TF 145 T GY xx 0006 00



Taped seams
Attached hood (respirator fit)¹
Front zipper closure
Storm flap with tape closure
Elastic wrists
Elastic ankles
SM-5X



Coverall

TF 169 T GY xx 0006 TV³
TF 169 T GY xx 0006 00



Taped seams
Attached hood (respirator fit)¹
Front zipper closure
Storm flap with tape closure
Elastic wrists
Attached socks²
SM-5X



¹ Respirator fit hoods are designed with a longer zipper, extending to the chin for complete coverage of the neck area. Standard hoods only extend to the neck.

² These Tychem® garments have attached socks made of the garment material. These attached socks must be worn inside protective outer footwear and are not suitable as outer footwear. These attached socks do not have adequate durability or slip resistance to be worn as the outer foot covering.

³ Only TV option codes are TAA compliant.



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PRODUCT INFORMATION

DuPont™ Tychem® 6000 F Grey. Hooded coverall. Stitched and over-taped seams. Thumb loops. Elastication at wrists, ankles, face and waist. Self-adhesive double zipper flap and chin flap. Grey.

ATTRIBUTES

Full Part Number	TFCHA5TGY00
Fabric/Materials	Tychem® F
Design	Hooded coverall with elastics and thumb loops
Seam	Stitched and over-taped
Color	Grey
Other Colors	Orange
Sizes	SM, MD, LG, XL, 2X, 3X
Quantity/Box	25 per box, individually packed.

FEATURES

- Certified according to Regulation (EU) 2016/425.
- Chemical protective clothing, Category III, Type 3-B, 4-B, 5-B and 6-B.
- EN 14126 (barrier to infective agents), EN 1073-2 (protection against radioactive contamination)..
- Antistatic treatment (EN 1149-5) - on inside
- Stitched and over-taped seams with barrier tape for protection and strength
- Self-adhesive double zipper flap closure system for higher protection
- Option: Socks attached to the ankle: to be worn inside safety boots or shoes with additional knee-length boot flap to ensure a high protection level

SIZETABLE

PRODUCT SIZE	ARTICLE NUMBER	ADDITIONAL INFO
SM	D13495186	
MD	D13495156	
LG	D13395221	
XL	D13395545	
2X	D13395268	
3X	D13495118	

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Abrasion Resistance ⁷	EN 530 Method 2	>2000 cycles	6/6 ¹
Basis Weight	DIN EN ISO 536	120 g/m ²	N/A
Bursting Strength (Mullenburst)	ISO 2758	650 kPa	N/A
Colour	N/A.	Grey	N/A
Flex Cracking Resistance ⁷	EN ISO 7854 Method B	>1000 cycles	1/6 ¹
Puncture Resistance	EN 863	>10 N	2/6 ¹
Resistance to water penetration	AATCC 127	>30 kPa	N/A
Surface Resistance at RH 25%, inside ⁷	EN 1149-1	< 2,5 · 10 ⁹ Ohm	N/A





TF145T



TF169T

TYCHEM® F

- Widely used by military personnel and first responders for chemical warfare situations
- Strong and durable garments with broad chemical barrier
- For use when potential exposure to industrial chemicals and chemical warfare agents exists
- Successfully tested by Soldier and Biological Chemical Command (SBCCOM) in Aberdeen, MD
- Tychem® F is a barrier film laminated to Tyvek®
- Tychem® F provides at least 30 minutes of protection against >180 chemical challenges
- Tychem® F is available in orange for high visibility and gray for discretionary purposes
- TV = TAA compliant 
- PI = Packaged individually

Coverall

TF145TGYXX0006TV
TF145TGYXX000600

Taped seams
Attached hood (respirator fit)²
Front zipper closure
Storm flap with tape closure
Elastic wrists
Elastic ankles
SM-5X



Coverall

TF169TGYXX0006TV
TF169TGYXX000600

Taped seams
Attached hood (respirator fit)²
Front zipper closure
Storm flap with tape closure
Elastic wrists
Attached socks¹
SM-5X



Coverall

TF186TGYXX0006PI

Taped seams
Attached hood (respirator fit)²
Front zipper closure
Storm flap with tape closure
Attached butyl gloves
Attached socks¹
Outer boot flaps
MD-5X



Only TV option codes are TAA compliant.

Please note that Tychem® fabrics have different permeation performance. Please check SafeSPEC™ on our website for permeation data that meets your specific needs.

Stock/Make to Order designations are based on sales volume and production efficiencies. Therefore, designations are subject to change without notice.

¹These Tychem® garments have attached socks made of the garment material. These attached socks must be worn inside protective outer footwear and are not suitable as outer footwear. These attached socks do not have adequate durability or slip resistance to be worn as the outer foot covering.

²Respirator fit hoods are designed with a longer zipper, extending to the chin for complete coverage of the neck area. Standard hoods only extend to the neck. See page 5 for photos.

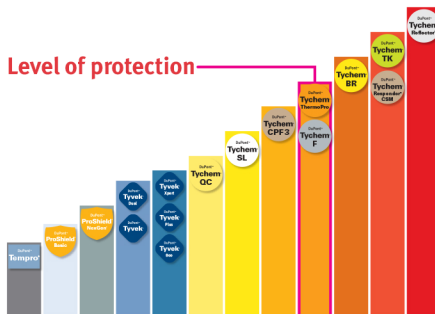
Storm flaps: All taped seam coveralls have a single storm flap with a pressure-sensitive tape closure.

Seams and closures have less barrier than fabric.

Note: Not all sizes available in all styles.

WARNING: Tychem® should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Only Tychem® ThermoPro, Tychem® Reflector® and Tychem® TK styles 600T/601T (with aluminized outer suit) garments are designed and tested to help reduce injury during escape from a flash fire. Users of Tychem® ThermoPro, Tychem® Reflector® and Tychem® TK styles 600T/601T (with aluminized outer suit) garments should not knowingly enter an explosive environment. Consult the Tychem® user manual, located on our website, for instructions on proper use, care and maintenance of your Tychem® garments.

Level of protection



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TYFCHA5T

Coverall

TYFCHA5TORXX002500

Taped seams
Attached hood (respirator fit)¹
Front zipper closure
Self-adhesive double zipper
Storm flap closure
Elastic wrists
Elastic ankles
Thumb loops
Chin flap
MD-2X



Gown

TYFPL50SGYXX002500

Taped seams
Wrap-over rear closure with tie
Partial body chemical protective clothing
Category III Type PB[3]
Shin length
SM and L/2X



Apron

TYFPA30SGYXX002500

No seams
Neck and waist ties
Shin length
One size fits most



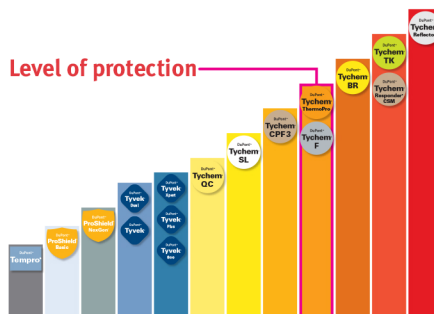
Sleeve

TYFPS32SGYXX005000

Taped seam
Elastic top
Elastic wrist
18" length
One size fits most



Level of protection



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Physical Properties* of DuPont™ Tychem® F

Property	Result	Method
Basis Weight	3.5 oz/yd ²	ASTM D3776
Burst Strength — Ball	55 lbf	ASTM D3787
Tear Resistance — Trap Tear (MD/CD)	8 lbf / 7 lbf	ASTM D5733
Breaking Strength — Grab (MD/CD)	63 lbf / 69 lbf	ASTM D751
Wearing Apparel Flammability	Class 1	16 CFR 1610

* Typical Values, not specifications.
These results are measured using the latest ASTM test methods. Results will vary due to the changes in test methods.

Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

Chemical Name	Physical Phase	Normalized Breakthrough Time (Minutes)
Acetone	L	>480
Acetonitrile	L	157
Ammonia	G	79
1,3-Butadiene	G	>480
Carbon disulfide	L	>480
Chlorine	G	>480
Dichloromethane	L	imm.
Diethylamine	L	>480
N,N-Dimethylformamide	L	>480
Ethyl acetate	L	>480
Ethylene oxide	G	>480
n-Hexane	L	>480
Hydrogen chloride	G	>480
Methanol	L	77
Methyl chloride	G	>480
Nitrobenzene	L	>480
Sodium hydroxide, 50%	L	>480
Sulfuric acid, 98%	L	>480
Tetrachloroethylene	L	>480
Tetrahydrofuran	L	464
Toluene	L	>480

Index of codes: >=greater than, imm.=immediate (<10 minutes), nt=not tested, L=liquid, G=gas. Normalized Breakthrough Time (NBT) shown in minutes.

Serged and/or bound seams are degraded by some hazardous liquid chemicals, such as strong acids, and should not be worn when these chemicals are present.

Seams and closures have less barrier than fabric.

Storm flaps: All taped seam coveralls have a single storm flap with a pressure-sensitive tape closure.

Permeation testing on industrial chemicals is in accordance with ASTM F739, *Standard Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids or Gases Under Conditions of Continuous Contact*. All tests are conducted at room temperature unless otherwise noted. Reported results are Normalized Breakthrough Times defined by ASTM F739 as the time (in minutes) when the permeation rate reaches 0.1 µg/cm²/min.

The product information contained is current as of the date of publication, but may be revised as new information is developed. Before relying on any performance data for the purchase or performance of products, you should check www.SafeSPEC.DuPont.com or contact DPP Customer Service at **1-800-931-3456** to determine whether there is new information that relates to your intended use or application of the product.

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