

Tychem® BR

A wide range of chemical protection with enhanced flexibility.

Wide-Ranging Protection

Tychem® BR is backed by extensive barrier documentation. Permeation data is available for more than 240 chemicals, including the ones most frequently involved in industrial or HazMat incidents. Thus, Tychem® BR offers far-reaching protection for workers handling hazardous chemicals.

Durable Value

Tychem® BR offers the tear, puncture and abrasion resistance you've come to associate with chemical protective clothing made with DuPont fabrics, for lasting protection and consistent value.

Enhanced Comfort

Tychem® BR is soft and lightweight for comfort and ease of movement. Its flexible fabric can make it easier to move around in various types of work environments.

High Visibility

The yellow color of Tychem® BR is highly visible in both bright and dim light, offering greater protection for HazMat teams, transportation emergency teams and emergency response teams.



Physical Properties of Tychem® BR

Basis Weight ASTM D3776	6.6 oz/yd ²
Thickness ASTM D1777	16 mils
Ball Burst ASTM D3787-89	90 lbf
Grab Tensile (md/cd) ASTM D5034	90/84 lbf
Trap Tear (md/cd) ASTM D5597	19/19 lbf

These results are measured by using the latest ASTM test methods. Results will vary due to the changes in test methods. A true test of performance is in use.



Tychem® BR

CHEMICAL PROTECTIVE CLOTHING

Tychem® BR

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

CHEMICAL NAME	PHYSICAL PHASE	AVERAGE NORMALIZED BREAKTHROUGH TIME (minutes)	AVERAGE PERMEATION RATE (µg/cm ² /minute)
Acetone	L	>480	<0.001
Acetonitrile	L	>480	<0.0003
Ammonia	G	46	0.62
1,3-Butadiene	G	>480	<0.001
Carbon disulfide	L	>480	<0.001
Chlorine	G	>480	<0.01
Dichloromethane	L	432	0.06
Diethylamine	L	>480	<0.001
N,N-Dimethylformamide	L	>480	<0.001
Ethyl acetate	L	>480	<0.001
Ethylene oxide	G	>480	<0.01
n-Hexane	L	>480	<0.001
Hydrogen chloride	G	>480	<0.1
Methanol	L	157	0.81
Methyl chloride	G	>480	<0.001
Nitrobenzene	L	>480	<0.001
Sodium hydroxide, 50%	L	>480	<0.01
Sulfuric acid, 98%	L	>480	<0.01
Tetrachloroethylene	L	>480	<0.001
Tetrahydrofuran	L	>480	<0.001
Toluene	L	>480	<0.001

INDEX OF CODES:
 > = greater than, < = less than,
 L = liquid, G = gas,
Immed. = immediate (<10 minutes)
 Numbers reported are averages of samples tested by the ASTM F739 test method. Sample results do vary and therefore averages for these results are reported.

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligation or liability in connection with this information.

It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. The information set forth herein reflects laboratory performance of fabrics, not complete garments, under controlled conditions. It is intended for information use by persons having technical skill for evaluation under their specific end-use conditions, at their own discretion and risk.

Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher permeation rates than the fabric. Please contact the garment manufacturer for specific data. If fabric becomes torn, abraded or punctured, end user should discontinue use of garment to avoid potential exposure to chemical. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE AND ASSUME NO LIABILITY WHATSOEVER IN CONNECTION WITH ANY USE OF THIS INFORMATION.

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For more information:

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WARNINGS:

- 1) Tychem® BR is not flame-resistant and should not be used around heat, flame, sparks, or in potentially flammable or explosive environments.
- 2) Garments made of Tychem® BR should have slip-resistant or antislip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.



Tychem®
 CHEMICAL PROTECTIVE CLOTHING

DuPont Tychem® Protective Apparel

A wide variety of dependable protection from encapsulated suits to coveralls.



ALL COMMANDER® TYCHEM® BR FULLY ENCAPSULATED LEVEL A SUITS FEATURE:

- 3 layer faceshield (PVC 40 mil / Teflon® 5 mil / PVC 20 mil)
- attached internal Barrier® gloves (with attached outer butyl or Viton® gloves)
- gas tight zipper closure
- double storm flap over zipper
- Thermo Bond seams
- attached boots* with outer boot flaps
- knee wear pads
- one exhaust valve
- internal adjustment belt



95XFV
EX (Extra-wide) Faceshield
COMMANDER® SERIES



95RB
Standard Faceshield
COMMANDER® SERIES

COMMANDER® TYCHEM® BR FULLY ENCAPSULATED LEVEL A SUITS

ITEM #	EX (extra wide) faceshield or Standard faceshield	Expanded back (accommodates SCBA) or Flat back (airline access)	Butyl gloves or Viton® gloves	Front entry or Rear entry
Commander® BR EX				
95XFB	EX (extra wide)	expanded back	butyl	front
95XRB	EX (extra wide)	expanded back	butyl	rear
95XFV	EX (extra wide)	expanded back	Viton®	front
95XRV	EX (extra wide)	expanded back	Viton®	rear
95XFAB	EX (extra wide)	flat back	butyl	front
95XRAB	EX (extra wide)	flat back	butyl	rear
95FAV	EX (extra wide)	flat back	Viton®	front
95XRAV	EX (extra wide)	flat back	Viton®	rear
Commander® BR				
95FB	standard	expanded back	butyl	front
95RB	standard	expanded back	butyl	rear
95FV	standard	expanded back	Viton®	front
95RV	standard	expanded back	Viton®	rear
95FAB	standard	flat back	butyl	front
95RAB	standard	flat back	butyl	rear
95FAV	standard	flat back	Viton®	front
95RAV	standard	flat back	Viton®	rear

*Attached boots should be worn inside own shoes or boots. Shown above for illustration purposes only.

**Garments made of Tyvek® or Tychem® fabrics should have slip-resistant or antislip materials on the outer surface of boots, shoe covers, or other garment surfaces in conditions where slipping could occur. Item is not skid resistant.

Note: All Tychem® BR coveralls are available in sizes small to 4XL.



95135

FULLY ENCAPSULATED/LEVEL B

standard faceshield
(20 mil PVC)
expanded back
(accommodates SCBA)
elastic wrists
front entry
zipper/PVC zip lock closure
double storm flap over closure
Thermo Bond seams
attached boots*
outer boot flaps, 2 exhaust vents
EXPERT



95635

FULLY ENCAPSULATED/LEVEL B

standard faceshield
(20 mil PVC)
expanded back
(accommodates SCBA)
elastic wrists
rear entry
zipper/PVC zip lock closure
double storm flap over closure
Thermo Bond seams
attached boots*
outer boot flaps, 2 exhaust vents
EXPERT



95133

FULLY ENCAPSULATED/LEVEL B

standard faceshield
(20 mil PVC)
flat back (airline access)
elastic wrists
rear entry
zipper/PVC zip lock closure
double storm flap over closure
Thermo Bond seams
attached boots*
outer boot flaps, 2 exhaust vents
EXPERT



95120

COVERALL

collar
front zipper closure
storm flap over zipper
Thermo Bond seams



95125

COVERALL

collar
elastic wrists
elastic ankles
front zipper closure
storm flap over zipper
Thermo Bond seams



95122

COVERALL

attached hood (elastic face)
elastic wrists
front zipper closure
storm flap over zipper
attached boots*
Thermo Bond seams



95124

COVERALL

attached hood
(elastic face—respirator fit)
elastic wrists
front zipper closure
storm flap over zipper
attached boots*
Thermo Bond seams



95127

COVERALL

attached hood
(elastic face)
elastic wrists
elastic ankles
front zipper closure
storm flap over zipper
Thermo Bond seams



95256

COVERALL

attached hood
(elastic face—respirator fit)
elastic wrists
front zipper closure
storm flap over zipper
attached boots*
outer boot flaps
Thermo Bond seams



95472

APRON

attached sleeve
elastic wrists
bound neck & ties
26" x 52"
Thermo Bond seams



95389

HOOD / VEST

pullover
PVC faceshield
hook & loop waist belt
Thermo Bond seams



95444

BOOT COVER**

elastic top
17" high
Thermo Bond seams
(intended to be worn
over your own boots)