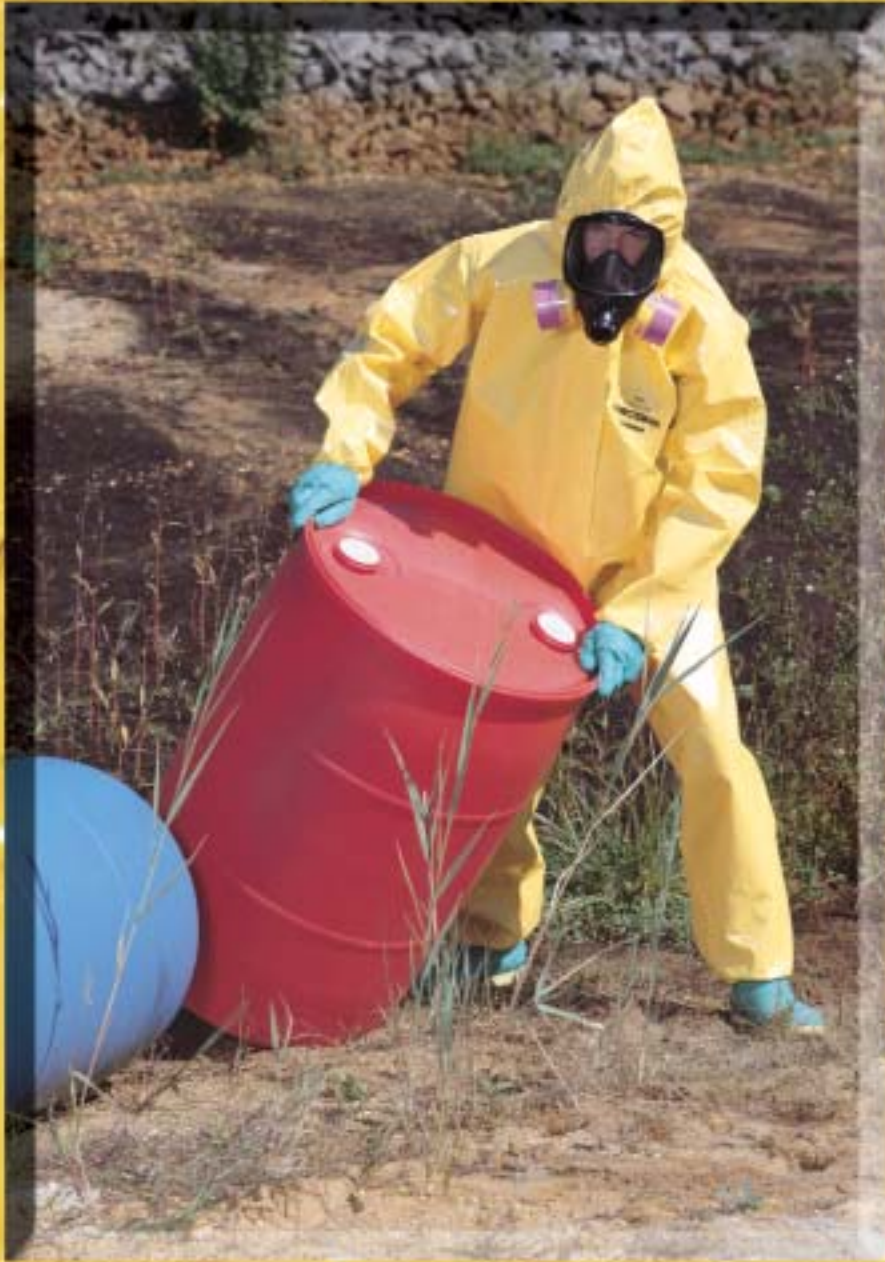


# tychem® br

C H E M I C A L P R O T E C T I V E C L O T H I N G



[www.lakeland.com](http://www.lakeland.com)

# Lakeland



# Tychem® BR. Chemical Protection and Enhanced Flexibility from Lakeland.

Handling hazardous chemicals is a dangerous business. You need the most protection possible. That's where Tychem® BR fits in. Providing extensive protection, Tychem BR is supported with a broad range of barrier documentation. In fact, Tychem BR has been tested against more than 200 chemicals, including the ones most involved in industrial or HazMat incidents.

Lakeland chemical protective clothing is known for offering excellent protection and value. Tychem BR is another fine example. It offers the tear, puncture and abrasion resistance you deserve. Superior protection does not come at the expense of comfort. Tychem BR garments are soft and lightweight, allowing workers to move with ease. Tychem BR is ideal for a variety of work environments.

Tychem BR is yellow for high visibility. Whether there is bright or dim light, Tychem BR can be seen. That's why it is an excellent choice for Hazmat teams, transportation emergency response teams and emergency response teams.

## Tychem® BR Physical Properties

Basis Weight (oz/yd<sup>2</sup>) . . . . .6.6 (ASTM D3776)

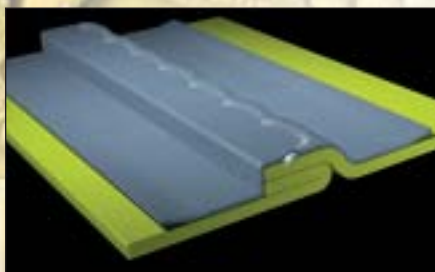
Thickness (mils) . . . . .16 (ASTM D1777)

Ball Burst (lbf) . . . . .90 (ASTM D3787-89)

Grab Tensile (lbf) . . . . .90/84 (ASTM D5034)\*

Trap Tear (lbf) . . . . .19/19 (ASTM D5597)\*

\* MD/CD



Lakeland's Tychem® BR Suits feature heat sealed seams. These seams are sewn and then sealed with a heat activated tape. This method ensures liquid-proof seams for maximum protection.



1-800-645-9291  
www.lakeland.com

## P E R M E A T I O N D A T A

### Permeation data for ASTM recommended list of chemicals for evaluating protective clothing materials (ASTM F1001)

Chemical Name	Physical Phase	Normalized Breakthrough Time (min.)	Average Permeation Rate (µg/cm <sup>2</sup> /min)
Acetone	L	>480	<0.001
Acetonitrile	L	>480	<0.003
Ammonia Gas	G	46	0.62
1, 3-Butadiene	G	>480	<0.001
Carbon disulfide	L	>480	<0.001
Chlorine Gas	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 Gas	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

> = greater than, < = less than, ND = none detected

For the latest permeation data, go to the DuPont website at [www.dupontprotectiveapparel.com](http://www.dupontprotectiveapparel.com).

For specific permeation data and breakthrough times for other chemicals, contact the DuPont Protective Apparel Fax-On-Demand Service at 1-800-558-9329. All permeation data supplied by the DuPont Company.

### Permeation data for 595 Class/Subclass Chemical Warfare Agents

Agent	Common Name	CAS Number	Protocol	Avg. Breakthrough Time	Minimum Detectable Permeation (µg/cm <sup>2</sup> )
GA	Tabun	77-80-6	DN5	>12 hrs.	<0.0001
GB	Sarin	107-44-8	DN5	> 12 hrs.	<0.0001
			DN6	>12 hrs.	<0.0001
GD	Soman	99-64-0	DN 5	>12 hrs.	<0.0001
			DN 6	nt	nt
HD	Sulfur Mustard	505-60-2	DN3	> 12 hrs.	<1.000
			DN4	> 12 hrs.	<1.000
L	Lewisite	541-25-3	DN3	> 12 hrs.	<0.060
			DN4	2 hrs.	<0.042
VX	VX	50782-69-9	DN5	>12 hrs.	<0.0001
			DN6	>12 hrs.	<0.0001

> = greater than, < = less than

**Fabric Test Protocols** – All tests performed in triplicate for DuPont Nonwovens by an independent accredited laboratory at 22° C, 50% R.H.

Protocol DN3 – MIL STD-282, Method T-209 (HD) or modified for Lewisite, for 12 hours at 10 g/m<sup>2</sup>.

Protocol DN4 – MIL STD-282, Method T-209 (HD) or modified for Lewisite, for 12 hours at 100 g/m<sup>2</sup> (Total coverage).

Protocol DN5 – MIL STD-282, Method T-209 (GB) or modified for GA, GD, and VX, for 12 hours at 10 g/m<sup>2</sup>.

Protocol DN5 – MIL STD-282, Method T-209 (GB) or modified for GA, GD, and VX, for 12 hours at 100 g/m<sup>2</sup> (Total coverage).

L E V E L A

**Tychem® BR670  
Level A  
Encapsulated Suit**

Fully encapsulated rear entry vapor-protective suit (Level A), expanded back, sealed seam on outside, 48" zipper, double storm flap with Velcro®, 40 mil PVC faceshield, butyl gloves, 2 Pirelli® valves, attached sock boots with boot flaps, 1.5" waist belt with 3 belt loops sewn (inside) and sealed. Storage bag included. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



L E V E L B A N D C



**Tychem® BR100 Coverall**

Coverall, collar, open wrists and ankles. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR110 Coverall**

Coverall, collar, elastic wrists and ankles. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR115 Coverall**

Coverall, collar, elastic wrists and overboots, 5" storm flap. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR130 Level B  
Coverall**

Coverall, hood, elastic face, open wrists and attached boots. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR140 Level B  
Coverall**

Coverall, hood, elastic face, open wrists and attached boots. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR150 Level B  
Coverall**

Coverall, hood, elastic face, elastic wrists, attached boots. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR155 Level B  
Coverall**

Coverall, expanded back for SCBA, elastic face and wrists, overboots. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR165 Level B  
Coverall**

Coverall, respirator fit hood, double storm flap with Velcro®, elastic face, wrists and ankles. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.





**Tychem® BR170 Level B Coverall**

Coverall, hood, elastic face and wrists with splash guards, sock boots with boot flaps. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR400 Encapsulated Suit**

Encapsulated suit (Level B), rear entry, flat back, 48" zipper, storm flap, 20 mil PVC faceshield, elastic wrists, 1 exhaust port with shroud, air tube inlet, attached sock boots with boot flaps. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR450 Encapsulated Suit**

Encapsulated suit (Level B), rear entry, expanded back, 48" zipper, storm flap, 20 mil PVC faceshield, elastic wrists, 2 exhaust ports with shroud, attached sock boots with boot flaps. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost. Also available as front entry suit, style BR440.



**Tychem® BR735 Bib Apron**

Apron, bib style, knee length, ties at neck and waist. 26" wide x 36" length.



**Tychem® BR250 Jacket**

Jacket, collar, zipper, elastic wrists, double storm flap with Velcro®. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.

BR



**Tychem® BR300 Pants**

Pants, elastic waist, hemmed cuffs. Standard sizes are S, M, L, XL. Sizes up to 5XL available at additional cost.



**Tychem® BR740 Boot Covers**

Boot covers that extend over calfs, elastic at top.



**Tychem® BR765 Sleeves**

18" sleeves with elastic ends.



**Tychem® BR714 Hood**

Hood, short bib style, 20 mil PVC lens, 2" Velcro® straps under arms with 4" hook side straps.



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*Woven Clothing*  
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