DuPont™ Tychem® TK

Superior Chemical Protective

Tychem® TK is the best protection you can wear in hazardous chemical environments. This line of chemical protective clothing is especially suited for protection against toxic, corrosive gases, liquids and solid chemicals. Developed by DuPont, Tychem® TK garments can be found in industrial, hazmat and domestic preparedness applications. They offer dependable protection with performance that has been proven over a wide range of chemicals.

Tychem® TK is useful in protecting against hazardous chemicals and contaminants found in the workplace.

Tychem® TK garments are extremely durable and puncture resistant. The chemical barrier properties of TK have been tested against 260 challenge chemicals. Permeation data proves the excellent protective capabilities of Tychem® TK. Tychem® TK garments are all lime-yellow in color, highly visible in both bright and dim light. Easily seen in hazy or smoky environments, this line-up of chemical protective clothing is the first line of defense

Tychem® TK Physical Properties

Property	Specification	Test Method
Basis Weight	10.5 oz/yd^2	ASTM D3776
Thickness (mils)	26	ASTM D1777
Ball Burst (lbf)	187	ASTM D3787-89
Grab Tensile MD/CD (lbf)	188/180	ASTM D5034
Trap Tear MD/CD (lbf)	53/52	ASTM D5597

Available with Sealed Seams or Sealed Seam Plus for maximum protection

Warning! Tychem® TK is not flame resistant and should not be used around heat, flame, sparks, or in potentially flammable or explosive environments. Garments made of Tychem® TK 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.

Sizes available up to 5XL at additional cost; contact Lakeland Customer Service for details

Tychem® TK is available in Level A, Level B, and other configurations, in a variety of styles and sizes up to 5 XL.

LEVEL B CONFIGURATIONS - TYCHEM® TK

Coverall, Style TK120
Tychem® TK coverall, hood, elastic face, wrists, and ankles. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 15 lbs.

Coverall, Style TK130
Tychem® TK coverall, hood, elastic face, wrists and ankles. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 15 lbs.

Coverall, Style TK140
Tychem® TK coverall, hood, elastic face, open wrists, attached boots. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 16 lbs.

Coverall, Style TK150
Tychem® TK coverall, hood, elastic face, elastic wrists, attached boots. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 16 lbs.

Coverall, Style TK155
Tychem® TK coverall, expanded back for SCBA, elastic face, elastic wrists, over boots. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 18 lbs.

Coverall, Style TK160
Tychem® TK coverall, hood, elastic face, elastic wrists attached boots with boot flaps. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 16 lbs.

Coverall, Style TK165
Tychem® TK coverall, hood, respirator fit hood, double storm flap with Velcro®, elastic face and wrists, attached boots with boot flaps. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 16 lbs.

Coverall, Style TK166
Tychem® TK coverall, respirator fit hood, double storm flap with Velcro, elastic face, wrists and ankles. This garment offers Level B protection.

Sizes: S - 5X
Case Pack 3
Case Weight 17 lbs.

PERMEATION DATA

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/cm²/min)
Acetone	L	>480	<0.01
Acrylonitrile	L	>480	<0.0003
Ammonia Gas	G	>480	<0.1
1, 3-Butadiene	G	>480	<0.07
Carbon disulfide	L	>480	<0.02
Chlorine Gas	G	>480	<0.02
Dichloromethane	L	>480	<0.03
Dimethyllamine	G	>480	<0.05
N, N-Dimethylacetamide	L	>480	<0.006
Ethyl Acetate	L	>480	<0.06
Ethylene Oxide Gas	G	>480	<0.1
n-Hexane	L	>480	<0.01
Hydrogen Chloride	G	>480	<0.1
Methanol	L	>480	<0.1
Methyl chloride	G	>480	<0.02
Nitrobenzene	L	>480	<0.1
Sodium hydroxide, 50%	L	>480	<0.1
Sulfuric acid, 98%	L	>480	<0.1
Tetrachloroethylene	L	>480	<0.01
Tetrohydrofuran	L	>480	<0.04
Toluene	L	>480	<0.02

> = greater than, < = less than

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

Permeation data for 595 Class/Subclass Chemical Warfare Agents

Agent	Common Name	CAS Number	Protocol	Avg. Breakthrough Time	Minimum Detectable Permeation ($\mu g/cm^2$)
GA	Tabun	77-80-6	DN5	>12 hrs.	<0.0001
GB	Sarin	107-44-8	DN5	> 12 hrs.	<0.0001
			DN6	>12 hrs.	<0.00024
GD	Soman	99-64-0	DN 5	>12 hrs.	<0.0001
			DN 6	>12 hrs.	<0.0001
HD	Sulfur Mustard	505-60-2	DN3	> 12 hrs.	<0.0001
			DN4	> 12 hrs.	<0.2000
L	Lewisite	541-25-3	DN3	> 12 hrs.	<0.0060
			DN4	> 12 hrs.	<0.2000
VX	VX	50782-69-9	DN5	>12 hrs.	<0.0001
			DN6	>12 hrs.	<0.00024

> = greater than, < = less than

Fabric Test Protocols – *All tests performed in triplicate for DuPont Nonwovens by an independant 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/m².

Protocol DN4 – MIL STD-282, Method T-209 (HD) or modified for Lewisite, for 12 hours at 100 g/m² (Total coverage).

Protocol DN5 – MIL STD-282, Method T-209 (GB) or modified for GA, GD, and VX, for 12 hours at 10 g/m².

Protocol DN5 – MIL STD-282, Method T-209 (GB) or modified for GA, GD, and VX, for 12 hours at 100 g/m² (Total coverage).