

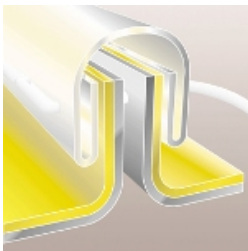


QC127B GY

DuPont™ Tychem® QC



Line Drawing



Bound Seam

FEATURES AND BENEFITS

A lightweight, and durable fabric, DuPont™ Tychem® QC utilizes the strength of DuPont™ Tyvek® fabric and a polyethylene coating. Tychem® QC fabric provides at least 30 minutes of protection against 42 chemical challenges. Tychem® QC is used for light splash protection in a variety of industrial environments, including petroleum refining, pulp and paper manufacturing, food processing, chemical processing, and pharmaceutical manufacturing.

- Tightly sewn seam is covered with garment fabric to reinforce seam and reduce potential for particle penetration
- Attached hood with elastic around face opening
- Storm flap covers zipper which can be sealed by the wearer with adhesive strip to prevent intrusion at zipper
- Elastic opening for tighter fit at wrist
- Elastic opening for tighter fit at ankle
- Gray color for discretionary needs such as law enforcement or military applications

[See all Product Literature](#)

Product Description

DuPont™ Tychem® QC Coverall. Standard Fit Hood. Elastic Wrists and Ankles. Storm Flap with Adhesive Closure. Bound Seams. Gray.

Full Part Number: **QC127BGYxx0012yy** (xx=size; yy=option code)

- Fabric:** Tychem® QC
- Style:** Coverall w/ Hood, Elastic Wrists and Ankles
- Seam:** Bound
- Color:** Gray
- Other Colors:** **QC127BYLxx001200** Yellow
- Sizes:** SM, MD, LG, XL, 2X, 3X, 4X, 5X
- Case Count:** 12 per case
- Option Codes:** 00

[Product Terms of Use and Warranty \(PDF\)](#)

PRODUCT DETAILS

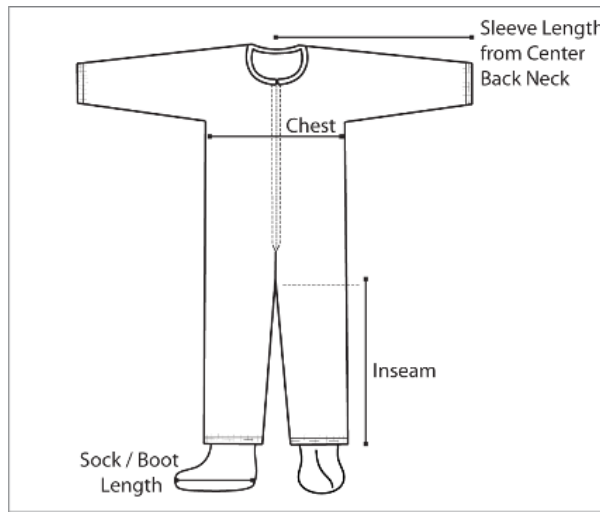
Available Options

Option Code	Description	Available Sizes	Part Number
00	Standard	SM, MD, LG, XL, 2X, 3X, 4X, 5X	QC127BGYxx001200

Finished Dimensions

Typical Finished Dimensions

Size	Sleeve Length	Chest Width	Inseam	Fits Chest	Fits Height	Men's Shoe	Women's Shoe	Inner Glove Size	Outer Glove Size
SM	33 3/4	24 1/4	27 1/2	35 1/4 - 38 3/4	5'0" - 5'7"	n/a	n/a	n/a	n/a
MD	33 3/4	24 1/4	27 1/2	35 1/4 - 38 3/4	5'3" - 5'7"	n/a	n/a	n/a	n/a
LG	35	25 3/4	28 1/2	38 1/4 - 41 3/4	5'5" - 5'9"	n/a	n/a	n/a	n/a
XL	36 1/2	27 1/4	29	41 1/4 - 44 3/4	5'8" - 6'2"	n/a	n/a	n/a	n/a
2X	38 1/4	28 3/4	30	44 1/4 - 47 3/4	6'0" - 6'4"	n/a	n/a	n/a	n/a
3X	38 1/2	30 1/4	31	47 1/4 - 50 3/4	6'2" - 6'4"	n/a	n/a	n/a	n/a
4X	39 1/2	32	32	50 3/4 - 54 1/4	6'4" - 6'7"	n/a	n/a	n/a	n/a
5X	40 1/2	33 1/2	33	53 3/4 - 57 1/4	6'7" - 6'10"	n/a	n/a	n/a	n/a



**Specifications**

1. The garment shall be constructed of DuPont™ Tychem® QC -- a DuPont™ Tyvek® protective fabric coated with 1.25 mils of polyethylene.
2. The garment shall be gray in color.
3. The garment shall be a hooded coverall design.
4. The garment shall have bound seams.
5. The garment shall have a standard hood with elastic around the face.
6. The garment shall have a front zipper closure.
7. The garment shall have elastic wrists.
8. The garment shall have elastic ankles.

**Additional Equipment Needed**

- Wear other appropriate PPE such as, but not limited to, respiratory, eye, head, hand, and foot protection based on the hazard assessment.
- Please read, understand and follow the Tychem® User Manual.

**FABRIC DATA**

Physical Properties - Typical Values

**Tychem® QC - Fabric Data**

Property	Test Method	Result
Thickness	ASTM D1777	10 mils
Basis Weight	ASTM D3776	2.5 oz/yd <sup>2</sup>
Burst Strength - Mullen	ASTM D3786	72 psi
Tear Resistance - Trap Tear (MD)	ASTM D1117	6.4 lb <sup>f</sup>
Tear Resistance - Trap Tear (CD)	ASTM D1117	4.7 lb <sup>f</sup>
Breaking Strength - Grab (MD)	ASTM D5034	39 lb <sup>f</sup>
Breaking Strength - Grab (CD)	ASTM D5034	48 lb <sup>f</sup>
Wearing Apparel Flammability	16 CFR 1610	Class 1

\*Typical values, not specifications.

Chemical Resistance Data

Testing Details



**Tychem® QC - Fabric Data**

Hazard / Chemical Name	CAS Number	Phase	Breakthrough Time (average, normalized to 0.1 ug/cm <sup>2</sup> /min) / Performance
1,1,2,2-Tetrachloroethylene	127-18-4	Liquid	imm.
1,3-Butadiene (gas)	106-99-0	Vapor	imm.
1,5-Pentanedial (5% in water)	111-30-8	Liquid	>480
Acetic acid	64-19-7	Liquid	imm.
Acetone	67-64-1	Liquid	imm.

Acetonitrile	75-05-8	Liquid	imm.
Acrylic acid	79-10-7	Liquid	imm.
Acrylonitrile	107-13-1	Liquid	imm.
Ammonia (gas)	7664-41-7	Vapor	imm.
Ammonium hydroxide (28%-30%)	1336-21-6	Liquid	imm.
Anhydrous ammonia (gas)	7664-41-7	Vapor	imm.
Aniline	62-53-3	Liquid	imm.
Animal Waste (non-hazardous; solid)	unknown	Solid	May be Suitable for Use
Asbestos (all forms)	1332-21-4	Solid	May be Suitable for Use
Beryllium	7440-41-7	Solid	May be Suitable for Use
Biological fluids w/ potentially infectious diseases	unknown	Liquid	May be Suitable for Use
Black liquor	308074-23-9	Liquid	>480
Blood	unknown	Liquid	May be Suitable for Use
Blood w/ potentially infectious diseases	unknown	Liquid	May be Suitable for Use
Bodily fluids	unknown	Liquid	May be Suitable for Use
Bodily fluids w/ potentially infectious diseases	unknown	Liquid	May be Suitable for Use
Bromine	7726-95-6	Liquid	imm.
Butadiene, 1,3- (gas)	106-99-0	Vapor	imm.
Butanol, n-	71-36-3	Liquid	imm.
Butyraldehyde, n-	123-72-8	Liquid	imm.
Carbon disulfide	75-15-0	Liquid	imm.
Caustic potash (45%)	1310-58-3	Liquid	>480
Caustic soda (42-50%)	1310-73-2	Liquid	>480
Chlorine (gas)	7782-50-5	Vapor	imm.
Chlorine (gas, 20 ppm)	7782-50-5	Vapor	>480*
Chloroacetic acid (70%-80%)	79-11-8	Liquid	370
Chloroethanol, 2-	107-07-3	Liquid	imm.
Chloroform	67-66-3	Liquid	imm.
Chromic acid (60-62%)	1333-82-0	Liquid	>480
Cresol, mixed isomers	1319-77-3	Liquid	40*
Cresol, o-	95-48-7	Liquid	37
Crude oil	8002-05-9	Liquid	imm.
Dichloromethane	75-09-2	Liquid	imm.
Diesel automotive test fuel	mixture	Liquid	imm.
Diethylamine	109-89-7	Liquid	imm.
Dimethyl-acetamide, N,N- (8% in water)	127-19-5	Liquid	>480
Dimethylene oxide (gas)	75-21-8	Vapor	imm.
Dimethylformamide, N,N-	68-12-2	Liquid	imm.
Diphenylmethane Diisocyanate 4,4- (50° C)	101-68-8	Liquid	>480
Dirt (general)	unknown	Solid	May be Suitable for Use
Disodium sulfide (60% w/w in water slurry)	1313-82-2	Liquid	>480
DuPont Activator 193S	mixture	Liquid	>480
DuPont Activator 4505S	mixture	Liquid	>480
DuPont Activator 4507S	mixture	Liquid	>480
Epoxyethane (gas)	75-21-8	Vapor	imm.
Ethyl acetate	141-78-6	Liquid	imm.
Ethylene glycol	107-21-1	Liquid	>480
Ethylene oxide (gas)	75-21-8	Vapor	imm.
Ethylenediamine	107-15-3	Liquid	201
Feces (solid)	unknown	Solid	May be Suitable for Use
Fertilizer (general; solid form)	unknown	Solid	May be Suitable for Use
Fiberglass	unknown	Solid	May be Suitable for Use
Formalin (3.7% Formaldehyde, 1.0-1.5% Methanol)	mixture	Liquid	>480
Formalin (37% Formaldehyde, 10-15% Methanol)	mixture	Liquid	imm.
Formic acid	64-18-6	Liquid	imm.
Fuel oil	68476-30-2	Liquid	imm.
Fungicide (general; solid form)	unknown	Solid	May be Suitable for Use
Glutaric acid dialdehyde (5% in water)	111-30-8	Liquid	>480
Glutaric aldehyde (5% in water)	111-30-8	Liquid	>480
Gluteraldehyde (5% in water)	111-30-8	Liquid	>480

Green liquor	68131-30-6	Liquid	>480
HCN (Hydrogen cyanide) (liquid, 21° C)	74-90-8	Liquid	60*
Hazardous Particles (larger than 0.3 micron in size)	unknown	Solid	May be Suitable for Use
Hazardous Particles (larger than 1 micron in size)	unknown	Solid	May be Suitable for Use
Herbicide (general; solid form)	unknown	Solid	May be Suitable for Use
Hexamethylene diisocyanate	822-06-0	Liquid	>480
Hexamethylene diisocyanate in DuPont Activator 193S	mixture	Liquid	>480
Hexamethylene diisocyanate in DuPont Activator 4505S	mixture	Liquid	>480
Hexamethylene diisocyanate in DuPont Activator 4507S	mixture	Liquid	>480
Hexane, n-	110-54-3	Liquid	imm.
Hydrochloric acid (37%)	7647-01-0	Liquid	140
Hydrocyanic acid (liquid, 21° C)	74-90-8	Liquid	60*
Hydrofluoric acid (48-51%)	7664-39-3	Liquid	400
Hydrogen chloride (gas)	7647-01-0	Vapor	imm.
Hydrogen cyanide (liquid, 21° C)	74-90-8	Liquid	60*
Hydrogen fluoride (gas)	7664-39-3	Vapor	imm.
Hydrogen peroxide (30%)	7722-84-1	Liquid	>480
Hydrogen peroxide (50%)	7722-84-1	Liquid	>480
Hydrogen peroxide (70%)	7722-84-1	Liquid	>480
Insecticide (general; solid form)	unknown	Solid	May be Suitable for Use
Iodine	7553-56-2	Solid	>420*,**
KOH (Potassium hydroxide) (45%)	1310-58-3	Liquid	>480
Lead	7439-92-1	Solid	May be Suitable for Use
Lime	mixture	Solid	May be Suitable for Use
Lithium chloride (20%)	7447-41-8	Liquid	>480
Lithium hydroxide (14.9%)	1310-65-2	Liquid	>480
Lye (42-50%)	1310-73-2	Liquid	>480
Mercury	7439-97-6	Liquid	>480
Methanol	67-56-1	Liquid	imm.
Methyl chloride (gas)	74-87-3	Vapor	imm.
Methyl salicylate	119-36-8	Liquid	imm.
Methylene chloride	75-09-2	Liquid	imm.
Methylene diphenyl isocyanate (50° C)	101-68-8	Liquid	>480
Mineral spirits	64475-85-0	Liquid	imm.
Mold spores	unknown	Solid	May be Suitable for Use
Muriatic acid (37%)	7647-01-0	Liquid	140
N,N-Dimethylformamide	68-12-2	Liquid	imm.
NaOH (Sodium hydroxide) (42-50%)	1310-73-2	Liquid	>480
Nitric acid (70%)	7697-37-2	Liquid	>480
Nitrobenzene	98-95-3	Liquid	imm.
Nitrochlorobenzene, o-	88-73-3	Solid	15
Nitrochlorobenzene, p-	100-00-5	Solid	imm.
Nitrotoluene, p-	99-99-0	Solid	imm.
Non-Hazardous Particles (larger than 0.3 micron in size)	unknown	Solid	May be Suitable for Use
Non-Hazardous Particles (larger than 1 micron in size)	unknown	Solid	May be Suitable for Use
Oleum (40% free SO3)	8014-95-7	Liquid	398*
PCB 1254 (90%)	11097-69-1	Liquid	55
Pentanedial, 1,5- (5% in water)	111-30-8	Liquid	>480
Pesticide (general; solid form)	unknown	Solid	May be Suitable for Use
Phenol (85-90%)	108-95-2	Liquid	imm.
Polychlorinated biphenyl 1254 (90%)	11097-69-1	Liquid	55
Polymethylene polyphenyl-polyisocyanate	9016-87-9	Liquid	>480
Potash lye (45%)	1310-58-3	Liquid	>480
Potassium cyanide (10%)	151-50-8	Liquid	>480
Potassium hydroxide (45%)	1310-58-3	Liquid	>480
Potassium permanganate	7722-64-7	Liquid	>480
Radioactive particles	unknown	Solid	May be Suitable for Use

Skydrol®	95660-51-8	Liquid	>480
Sodium disulfite (38% w/w in water)	7681-57-4	Liquid	6
Sodium hydroxide (42-50%)	1310-73-2	Liquid	>480
Sodium hypochlorite (15%)	7681-52-9	Liquid	>480
Sodium metabisulfite (38% w/w in water)	7681-57-4	Liquid	6
Sodium pyrosulfite (38% w/w in water)	7681-57-4	Liquid	6
Sodium silicate (40-42% in water)	6834-92-0	Liquid	>480
Sodium sulfide (60% w/w in water slurry)	1313-82-2	Liquid	>480
Sulfamic acid (15%)	5329-14-6	Liquid	>480
Sulfur dioxide	7446-09-5	Vapor	imm.
Sulfuric acid	7664-93-9	Liquid	>480
Tar balls	unknown	Solid	May be Suitable for Use
Tetrachloroethylene, 1,1,2,2-	127-18-4	Liquid	imm.
Tetrahydrofuran	109-99-9	Liquid	imm.
Tetramethylammonium hydroxide (25%)	75-59-2	Liquid	>480
Toluene	108-88-3	Liquid	imm.
Toluene-2,4-diisocyanate	584-84-9	Liquid	imm.
Toluidine, o-	95-53-4	Liquid	imm.
Trichlorobenzene, 1,2,4-	120-82-1	Liquid	imm.
Trifluoroethanol, 2,2,2-	75-89-8	Liquid	imm.
White liquor	68131-33-9	Liquid	>480
n-Hexane	110-54-3	Liquid	imm.
trans-1,4-Dichloro-2-butene	110-57-6	Liquid	75*

#### DuPont Fabric Permeation Data - Testing Details

Permeation data obtained per ASTM F739. Normalized breakthrough times (the time at which the permeation rate is equal to 0.1 µg/cm<sup>2</sup>/min) reported in minutes. All liquid chemicals have been tested between approximately 20°C and 27°C unless otherwise stated. All chemicals have been tested at a concentration of greater than 95% unless otherwise stated. Chemical warfare agents (Lewisite, Sarin, Soman, Sulfur Mustard, Tabun and VX Nerve Agent) have been tested at 22°C and 50% relative humidity per military standard MIL-STD-282.

>	Greater than.
"imm."	Immediate; having a normalized breakthrough time of 10 minutes or less.
blank cells	Fabric has not been tested. The fabric may or may not offer barrier.
*	Actual breakthrough time; normalized breakthrough time is not available.
**	Solid tested, vapor phase permeation measured.
"May be Suitable for Use"	Permeation testing was not conducted.

#### Special Warnings

- \*Serged and bound seams are degraded by some hazardous liquid chemicals, such as strong acids, and should not be worn when these chemicals are present.
- \*CAUTION: 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 informational 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 DuPont for specific data. If fabric becomes torn, abraded or punctured, or if seams or closures fail, or if attached gloves, visors, etc. are damaged, 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, express or implied, including, without limitation, no warranties of merchantability or fitness for a particular use and assume no liability in connection with any use of this information. This information is not intended as a license to operate under or a recommendation to infringe any patent or technical information of DuPont or others covering any material or its use. Cellosolve® and Selexol™ are registered trademarks of Dow Chemicals Company. Skydrol® is a registered trademark of Solutia.

#### PRODUCT ACCESSORIES

QC500B YL