QC122T YL

# DuPont™ Tychem® 2000

DuPont™ Tychem® 2000 Coverall. Standard Fit Hood. Stormflap. Elastic Wrists. Attached Socks. Storm Flap with Adhesive Closure. Taped Seams. Semi-auto locking slider zipper pull. Yellow.

| Name | Description |
|---|---|
| Full Part Number | QC122TYLxx0004yy (xx=size;yy=option code) |
| Fabric/Materials | TYCHEM® 2000 |
| Design | Coverall w/ Hood, Elastic Wrists, Att. Socks |
| Seam | Taped |
| Color | Yellow |
| Quantity/Box | 4 per case |
| Sizes | MD, LG, XL, 2X, 3X, 4X, 5X, 6X |
| Option Codes | 00 |

## FEATURES & PRODUCT DETAILS

A lightweight, and durable fabric, Tychem® 2000 fabric provides at least 30 minutes of protection against >40 chemical challenges. Tychem® 2000 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.

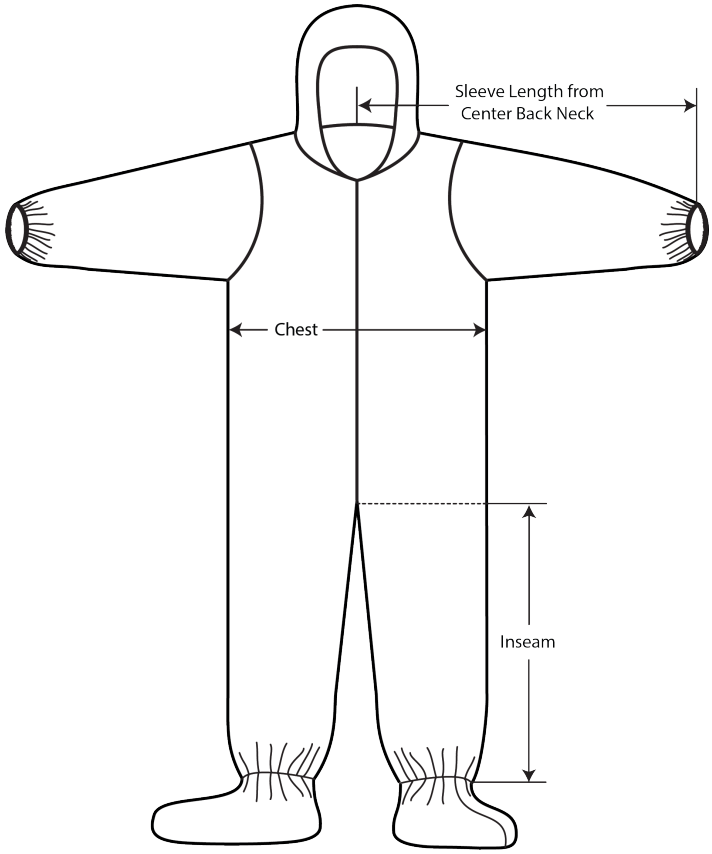
- Zipper features a semi-automatic locking slider allowing the puller to stay down and in a locked position.
- Taped seams provide strong chemical resistance against heavy liquid splashes. A sewn seam is covered with a strip of compatible chemical-resistant material through heat sealing.
- Attached hood 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
- Integrated socks composed of garment material
- Manufactured under specifications that do not contain natural rubber latex.
- Meets the U.S. industry requirements for blood (ASTM F1670) and viral penetration (ASTM F1671) protecting against several bloodborne pathogen exposure risks.
- Stormflaps.

AVAILABLE OPTIONS

| Option Code | Description | Sizes | Part Number |
|---|---|---|---|
| 00 | Standard | MD,LG,XL,2X,3X,4X,5X,6X | QC122TYLxx000400 |

SPECIFICATIONS

- The garment shall be constructed of DuPont™ Tychem® 2000 -- a DuPont™ Tyvek® protective fabric coated with 1.25 mils of polyethylene.
- The garment shall be yellow in color.
- The garment shall be a hooded coverall design.
- The garment shall have taped seams.
- The tape used to cover the seams shall be a film composite with equal to or greater chemical resistance than the base fabric.
- The garment shall have a standard hood with elastic around the face.
- The garment shall have a front zipper closure.
- The zipper shall be covered with a storm flap with adhesive closure.
- The garment shall have elastic wrists.
- The garment shall have attached socks.
- The garment shall have soles made of garment material.



FINISHED DIMENSIONS

| Size | Sleeve Length | Chest Width | Inseam | Fits Chest | Fits Height | Boot Length |
|---|---|---|---|---|---|---|
| MD | 33 3/4 | 24 1/4 | 27 1/2 | 35 1/4 - 38 3/4 | 5'3" - 5'7" | 16 1/2 |
| LG | 35 | 25 3/4 | 28 1/2 | 38 1/4 - 41 3/4 | 5'5" - 5'9" | 16 1/2 |
| XL | 36 1/2 | 27 1/4 | 29 | 41 1/4 - 44 3/4 | 5'8" - 6'2" | 16 1/2 |
| 2X | 38 1/4 | 28 3/4 | 30 | 44 1/4 - 47 3/4 | 6'0" - 6'4" | 16 1/2 |
| 3X | 38 1/2 | 30 1/4 | 31 | 47 1/4 - 50 3/4 | 6'2" - 6'4" | 16 1/2 |
| 4X | 39 1/2 | 32 | 32 1/2 | 50 3/4 - 54 1/4 | 6'4" - 6'7" | 16 1/2 |
| 5X | 40 1/2 | 33 1/2 | 33 1/2 | 53 3/4 - 57 1/4 | 6'7" - 6'10" | 16 1/2 |
| 6X | 41 1/2 | 35 1/2 | 34 | 57 3/4 - 61 1/4 | 6'9" - 7'1" | 16 1/2 |

## ADDITIONAL EQUIPMENT NEEDED

- Please read, understand and follow the Tychem® User Manual.
- Wear other appropriate PPE such as, but not limited to, respiratory, eye, head, hand, and foot protection based on the hazard assessment.
- Wear separate appropriate outer footwear over the garment sock. This garment has attached socks made of garment material. These socks are not suitable to used as outer footwear. They do not have adequate durability or slip resistance to be worn as the outer foot covering. (15)

## Physical Properties

Data relating to mechanical performance of the fabrics used in DuPont chemical protective clothing, listed for the selected garment according to the test methods and relevant European standard, if applicable. Such properties, including abrasion and flex-cracking resistance, tensile strength and puncture resistance can help in the assessment of protective performance.

| Property | Test Method | Typical Result |
|---|---|---|
| Thickness (PPSH-249) | ASTM D1777 | 10 mils |
| Basis Weight | ASTM D3776 | 2.5 $oz/yd^2$ |
| Burst Strength - Mullen. | ASTM D3786 | 68 psi |
| Tear Resistance - Trap Tear (MD) | ASTM D5587 | 6.4 $lb_f$ |
| Tear Resistance - Trap Tear (CD) | ASTM D5587 | 5 $lb_f$ |
| Breaking Strength - Grab (MD). | ASTM D5034 | 39 $lb_f$ |
| Breaking Strength - Grab (CD) | ASTM D5034 | 43 $lb_f$ |
| Wearing Apparel Flammability | 16 CFR 1610 | Class 1 |

CHEMICAL RESISTANCE

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| 2-Methyl-4-isothiazolin-3-one (20%) | 2682-20-4 | Liquid | >480 |
| Acetic acid (>95%) | 64-19-7 | Liquid | imm |
| Acetic acid ethyl ester | 141-78-6 | Liquid | imm |
| Acetone | 67-64-1 | Liquid | imm |
| Acetonitrile | 75-05-8 | Liquid | imm |
| Acroleic acid | 79-10-7 | Liquid | imm |
| Acrylic acid | 79-10-7 | Liquid | imm |
| Acrylonitrile | 107-13-1 | Liquid | imm |
| Amido sulfonic acid (15%) | 5329-14-6 | Liquid | >480 |
| Amino benzene | 62-53-3 | Liquid | imm |
| Ammonia (gaseous) | 7664-41-7 | Vapor | imm |
| Ammonium hydroxide (28% - 30%) | 1336-21-6 | Liquid | imm |
| Aniline | 62-53-3 | Liquid | imm |
| Benzenamine | 62-53-3 | Liquid | imm |
| Benzisothiazol 1,2- (20%) | 2634-33-5 | Liquid | >480 |
| Black Liquor (mix) | mix | Liquid | >480 |
| Bromine | 7726-95-6 | Liquid | imm |
| Butadiene, 1,3- (gaseous) | 106-99-0 | Vapor | imm |
| Butanal, n- | 123-72-8 | Liquid | imm |
| Butanol, 1- | 71-36-3 | Liquid | imm |
| Butanol, n- | 71-36-3 | Liquid | imm |
| Butyl alcohol, n- | 71-36-3 | Liquid | imm |
| Butyraldehyde, n- | 123-72-8 | Liquid | imm |
| Carbon disulfide | 75-15-0 | Liquid | imm |
| Carmustine (3.3 mg/ml, 10 % Ethanol) | 154-93-8 | Liquid | >240 |
| Caustic ammonia (28% - 30%) | 1336-21-6 | Liquid | imm |
| Caustic soda (50%) | 1310-73-2 | Liquid | >480 |
| Chemguard S-764P14A | mix | Liquid | >480 |
| Chlorine (20 ppm) | 7782-50-5 | Vapor | >480[8] |
| Chlorine (gaseous) | 7782-50-5 | Vapor | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|---|---|---|---|
| Chloro 2-nitrobenzene, 1- | 88-73-3 | Solid | 15 |
| Chloro acetic acid (80%) | 79-11-8 | Liquid | >480 |
| Chloro ethanol, 2- | 107-07-3 | Liquid | imm |
| Chloro form | 67-66-3 | Liquid | imm |
| Cresol o- | 95-48-7 | Liquid | 13 |
| Cresols, mixed isomers | 1319-77-3 | Liquid | 71 |
| Cresylic acid | 1319-77-3 | Liquid | 71 |
| Cyanoethylene | 107-13-1 | Liquid | imm |
| Cyanomethane | 75-05-8 | Liquid | imm |
| Cyclo phosphamide (20 mg/ml) | 50-18-0 | Liquid | >240 |
| Diaminoethane, 1,2- | 107-15-3 | Liquid | >480 |
| Dichloro methane | 75-09-2 | Liquid | imm |
| Diesel automotive test fuel | mix | Liquid | imm |
| Diethyl amine | 109-89-7 | Liquid | imm |
| Dimethyl acetamide, N,N- (8%) | 127-19-5 | Liquid | >480 |
| Dimethyl formamide, N,N- | 68-12-2 | Liquid | imm |
| Dimethyl ketal | 67-64-1 | Liquid | imm |
| Dimethyl ketone | 67-64-1 | Liquid | imm |
| Diphenyl methane diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| Disodium sulfide (60% (slurry)) | 1313-82-2 | Liquid | >480 |
| Doxorubicin HCl (2 mg/ml) | 25136-40-9 | Liquid | >240 |
| DuPont Activator 193S (mix) | mix | Liquid | >480 |
| DuPont Activator 4505S (mix) | mix | Liquid | >480 |
| DuPont Activator 4507S (mix) | mix | Liquid | >480 |
| Epoxy ethane (gaseous) | 75-21-8 | Vapor | imm |
| Ethane 1,2-diol | 107-21-1 | Liquid | >480 |
| Ethane nitrile | 75-05-8 | Liquid | imm |
| Ethyl acetate | 141-78-6 | Liquid | imm |
| Ethyl ethanamine, N- | 109-89-7 | Liquid | imm |
| Ethyl nitrile | 75-05-8 | Liquid | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Ethylene carboxylic acid | 79-10-7 | Liquid | imm |
| Ethylene chlorohydrin | 107-07-3 | Liquid | imm |
| Ethylene diamine | 107-15-3 | Liquid | >480 |
| Ethylene glycol | 107-21-1 | Liquid | >480 |
| Ethylene oxide (gaseous) | 75-21-8 | Vapor | imm |
| Ethylene tetrachloride | 127-18-4 | Liquid | imm |
| Etoposide (Toposar®, Teva) (20 mg/ml, 33.2 % (v/v) Ethanol) | 33419-42-0 | Liquid | >240 |
| Fluorouracil, 5- (50 mg/ml) | 51-21-8 | Liquid | >240 |
| Formalin (3.7%, 1-1.5% Methanol) | 50-00-0 | Liquid | >480 |
| Formalin (37% (10-15% Methanol)) | 50-00-0 | Liquid | imm |
| Fuel-oil no 2 | 68476-30-2 | Liquid | imm |
| Glutaral (5%) | 111-30-8 | Liquid | >480 |
| Glutaraldehyde (5%) | 111-30-8 | Liquid | >480 |
| Glycol alcohol | 107-21-1 | Liquid | >480 |
| Glycol chlorohydrin | 107-07-3 | Liquid | imm |
| Green Liquor (mix) | mix | Liquid | >480 |
| Hexamethylene diisocyanate | 822-06-0 | Liquid | >480 |
| Hexane, n- | 110-54-3 | Liquid | imm |
| Hydrochloric acid (37%) | 7647-01-0 | Liquid | 140 |
| Hydrofluoric acid (48-51%) | 7664-39-3 | Liquid | 446 |
| Hydrogen chloride (gaseous) | 7647-01-0 | Vapor | imm |
| Hydrogen fluoride (20-27 °C, gaseous) | 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 |
| Hydroxy toluene, o- | 95-48-7 | Liquid | 13 |
| Isopropanol | 67-63-0 | Liquid | imm |
| Isopropanol (70%) | 67-63-0 | Liquid | imm |
| Isopropyl alcohol | 67-63-0 | Liquid | imm |
| Isopropyl alcohol (70%) | 67-63-0 | Liquid | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|---|---|---|---|
| Ketone propane | 67-64-1 | Liquid | imm |
| Limonene d- | 5989-27-5 | Liquid | imm |
| Lithium chloride (20%) | 7447-41-8 | Liquid | >480 |
| Lithium hydroxide (14.9%) | 1310-65-2 | Liquid | >480 |
| Mercury | 7439-97-6 | Liquid | >480 |
| Methanol | 67-56-1 | Liquid | imm |
| Methyl 4-isopropenyl-1-cyclohexene, 1- | 5989-27-5 | Liquid | imm |
| Methyl acetyl | 67-64-1 | Liquid | imm |
| Methyl benzol | 108-88-3 | Liquid | imm |
| Methyl chloride (gaseous) | 74-87-3 | Vapor | imm |
| Methyl cyanide | 75-05-8 | Liquid | imm |
| Methyl ketone | 67-64-1 | Liquid | imm |
| Methyl phenols | 1319-77-3 | Liquid | 71 |
| Methyl salicylate | 119-36-8 | Liquid | <15 |
| Methylene chloride | 75-09-2 | Liquid | imm |
| Methylene diphenyl diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| Mineral spirit | 64475-85-0 | Liquid | imm |
| Nitric acid (70%) | 7697-37-2 | Liquid | >480 |
| Nitro benzene | 98-95-3 | Liquid | imm |
| Nitro chlorobenzene, p- | 100-00-5 | Solid | imm |
| Nitro toluene, p- | 99-99-0 | Solid | imm |
| Oleum (103% (13% free SO3)) | 8014-95-7 | Liquid | 230 |
| Oleum (20% free SO3) | 8014-95-7 | Liquid | 60 |
| Paclitaxel (Hospira) (6 mg/ml, 49.7 % (v/v) Ethanol) | 33069-62-4 | Liquid | >240 |
| Pentanedial, 1,5- (5%) | 111-30-8 | Liquid | >480 |
| Phenol (85%) | 108-95-2 | Liquid | 11 |
| Phenyl amine | 62-53-3 | Liquid | imm |
| Polymethylene polyphenyle isocyanate (p-MDI) | 9016-87-9 | Liquid | >480 |
| Potassium cyanide (10%) | 151-50-8 | Liquid | >480 |
| Potassium hydroxide (45%) | 1310-58-3 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Potassium permanganate (sat) | 7722-64-7 | Liquid | >480 |
| Propan -2-ol | 67-63-0 | Liquid | imm |
| Propan -2-ol (70%) | 67-63-0 | Liquid | imm |
| Propan -2-one | 67-64-1 | Liquid | imm |
| Propene acid | 79-10-7 | Liquid | imm |
| Propenenitrile, 2- | 107-13-1 | Liquid | imm |
| Propenoic acid nitrile | 107-13-1 | Liquid | imm |
| Pyroacetic ether | 67-64-1 | Liquid | imm |
| Sodium cyanide (45%) | 143-33-9 | Liquid | >480 |
| Sodium hydroxide (50%) | 1310-73-2 | Liquid | >480 |
| Sodium hypochlorite (15%) | 7681-52-9 | Liquid | >480 |
| Sodium hypochlorite (5.25-6%) | 7681-52-9 | Liquid | >480 |
| Sodium metabisulphite (38%) | 7681-57-4 | Liquid | imm |
| Sodium silicate (40-42%) | 6834-92-0 | Liquid | >480 |
| Spectracide® (50% Malathion, 44% Aromatic Solvent) | mix | Liquid | imm |
| Sulfamic acid (15%) | 5329-14-6 | Liquid | >480 |
| Sulfamidic acid (15%) | 5329-14-6 | Liquid | >480 |
| Sulfur dioxide | 7446-09-5 | Vapor | imm |
| Sulfuric acid (>95%) | 7664-93-9 | Liquid | >480 |
| Sulfuric acid fuming (103% (13% free SO3)) | 8014-95-7 | Liquid | 230 |
| Sulfuric acid fuming (20% free SO3) | 8014-95-7 | Liquid | 60 |
| Tetrachloro ethylene, 1,1,2,2- | 127-18-4 | Liquid | imm |
| Tetrahydrofuran | 109-99-9 | Liquid | imm |
| Tetramethyl ammonium hydroxide (25%) | 75-59-2 | Liquid | >480 |
| Thiotepa (10 mg/ml) | 52-24-4 | Liquid | >240 |
| Toluene | 108-88-3 | Liquid | imm |
| Toluene diisocyanate, 2,4- | 584-84-9 | Liquid | imm |
| Toluene diisocyanate, 2,4- (80%) | 584-84-9 | Liquid | 60 |
| Trichloro benzene, 1,2,4- | 120-82-1 | Liquid | imm |
| Trichloro methane | 67-66-3 | Liquid | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Trifluoro ethanol, 2,2,2- | 75-89-8 | Liquid | imm |
| Vinyl cyanide | 107-13-1 | Liquid | imm |
| Vinyl ethylene (gaseous) | 106-99-0 | Vapor | imm |
| White Liquor | mix | Liquid | >480 |

BT0.1 Normalized breakthrough time at 0.1 µg/cm²/min [mins] CAS Chemical abstracts service registry number min Minute > Larger than < Smaller than imm Immediate (< 10 min) nm Not tested sat Saturated solution N/A Not Applicable na Not attained GPR grade General purpose reagent grade * Based on lowest single value 8 Actual

breakthrough time; normalized breakthrough time is not available DOT5 Degradation after 5 min DOT30 Degradation after 30 min DOT60 Degradation after 60 min DOT240 Degradation after 240 min BT1383 Normalized breakthrough time at 0.1 µg/cm²/min [mins] acc. ASTM F1383

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.

Important Note:

- *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.

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- Tyvek® 500, Tyvek® 600, Tyvek® 800 products manufactured before January 2023 did contain natural rubber latex which may cause allergic reactions in some sensitized individuals. Anyone who begins to exhibit an allergic response during the use of DuPont products should immediately cease using these products. The incident should also be reported to DuPont at +1 (888) 439-2988 so that an investigation can be initiated.