



QS127T GR

Tychem® 2000 SFR

DuPont™ Tychem® 2000 SFR Coverall. Attached Hood (Respirator Fit). Front Zipper Closure. Chin Flap. Storm Flap. Elastic Ankles. Elastic Waist. Elastic Wrists. Taped Seams. Green.

Name	Description
Full Part Number	QS127TGRxx0004yy (xx=size;yy=option code)
Fabric/Materials	TYCHEM® 2000 SFR
Design	Hooded Coverall
Seam	Taped
Color	Green
Sizes	MD,LG,XL,2X,3X,4X,5X,6X,7X
Quantity/Box	4 per case

FEATURES & PRODUCT DETAILS

Tychem® 2000 SFR protective coveralls provide chemical and secondary flame protection in a lightweight garment. Tychem® 2000 SFR garments are intended to be worn over primary flame resistant garments. In the event that a flash fire occurs, they won't ignite and won't contribute to additional burn injury if appropriate flame-resistant personal protective equipment, such as DuPont™ Nomex®, is worn beneath.

Tychem® 2000 SFR represents a new generation of secondary flame-resistant chemical garment technology. Unlike traditional secondary flame resistant chemical garments that have been available for years, new Tychem® 2000 SFR garments were specially designed to meet dual hazard needs of a protective chemical suit with secondary flame resistance. This unique combination of performance permits Tychem® 2000 SFR garments to be worn over primary flame resistant (FR) garments like Nomex® when chemical splash and flash fire hazards exist. The fabric used in Tychem® 2000 SFR garments is a unique technology. It doesn't char like traditional secondary flame resistant technologies. Instead, it was designed to *shrink away* from flame - without burning.

[See how Tychem® 2000 SFR performs against the competition.](#)

We engineered Tychem® 2000 SFR garments to perform well in flame engulfment scenarios. Extensive ASTM F1930 (instrumented thermal manikin) testing was conducted during the development of Tychem® 2000 SFR garments to aid in garment design and component selection. The final Tychem® 2000 SFR garment continues to demonstrate excellent performance when exposed to a fire engulfment. In fact, when tested side-by-side, Tychem® 2000 SFR garments yield a much lower predicted body burn level and much less afterflame than competing garments, including Lakeland Pyrolon® CRFR. The performance of the actual garment when exposed to a fire engulfment should be the key deciding point for selection of a secondary FR garment. Using ASTM F1930 testing for 4 seconds of flame exposure, when worn over Nomex® IIIA coverall 6oz/yd², Tychem® 2000 SFR shows 9.3% body burn, versus Lakeland Pyrolon® which shows 28.1% body burn.

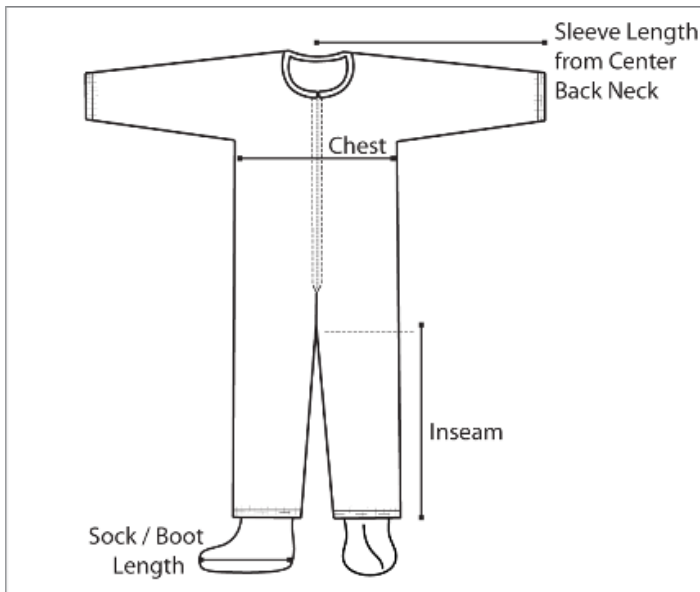
- Covered, braided elastic openings at wrist and ankle for tighter fit.
- Taped seams.
- Respirator-fit hood lined with ProShield® 6 SFR fabric.
- Covered, braided elastic at hood.
- Nylon zipper with large metal pull.
- Chin flap with double-sided adhesive tape.
- Storm flap covers zipper which can be sealed by the wearer with double-sided adhesive strip to prevent intrusion at zipper.

AVAILABLE OPTIONS

Option Code	Description	Sizes	Part Number
00	Standard	MD,LG,XL,2X,3X,4X,5X,6X,7X	QS127TGRxx000400

SPECIFICATIONS

- The garment shall have taped seams.
- The garment shall be a hooded coverall design.
- The garment shall have elastic wrists.
- The garment shall have elastic ankles.
- The garment shall have an elastic waist.
- 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 front zipper closure.
- The garment shall be constructed of DuPont™ Tychem® 2000 SFR-- a proprietary secondary flame resistant (FR) chemical garment.
- The garment shall be green in color.
- The garment shall have a storm flap and chin flap with adhesive closure.



FINISHED DIMENSIONS

Size	Sleeve Length	Chest Width	Inseam	Fits Chest	Fits Height
MD	34 5/8	24	31 7/8	36 - 39	5'6" - 5'9"
LG	35 7/8	26	32 1/4	39 - 43	5'8" - 6'0"
XL	37	28	33	43 - 46	5'11" - 6'2"
2X	38 1/4	30	33 1/2	46 - 49	6'1" - 6'4"
3X	39 3/8	32	34 1/4	49 - 52	6'3" - 6'7"
4X	40 5/8	34 1/2	34 1/4	52 - 55	6'7" - 6'10"
5X	41 7/8	36 1/2	34 1/4	55 - 58	6'10" - 7'1"
6X	43	38 1/2	35	58 - 61	6'10" - 7'1"
7X	44 1/8	40 1/2	35 3/4	61 - 64	6'10" - 7'1"

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.
- Wear other appropriate PPE such as, but not limited to, respiratory, eye, head, hand, and foot protection based on the hazard assessment.

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
Basis Weight	ASTM D3776	3.2 oz/yd ²
Breaking Strength - Grab (CD)	ASTM D5034	41 lbf
Breaking Strength - Grab (MD).	ASTM D5034	39 lbf
Tear Resistance - Trap Tear (CD)	ASTM D1117	8 lbf
Tear Resistance - Trap Tear (MD)	ASTM D1117	10 lbf
Thickness (PPSH-249)	ASTM D1777	7.5 mils
Wearing Apparel Flammability	16 CFR 1610	Class 1

1 According to EN 14325 2 According to EN 14126 3 According to EN 1073-2 4 According to EN 14116 12
According to EN 11612 5 Front Tyvek ® / Back 6 Based on test according to ASTM D-572 7 See Instructions for
Use for further information, limitations and warnings > Larger than < Smaller than N/A Not Applicable STD DEV
Standard Deviation

WARNING

- *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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PERMEATION DATA



Permeation is the process by which a solid, liquid or gaseous chemical moves through a protective clothing fabric at a molecular level. Permeation data assist in the selection of the most appropriate protective garment for a particular application and in the estimation of how long it can be safely worn. Standardised test methods are used to determine the resistance of DuPont materials to permeation, the results of which can be selected according to a specific chemical, chemical class or fabric.

Hazard / Chemical Name	Physical State	CAS	BT Act	BT 0.1	BT 1.0	EN	SSPR	MDPR	Cum 480	Time 150	ISO
Acetone	Liquid	67-64-1	imm	imm	imm		77.8	0.011			
Acetonitrile	Liquid	75-05-8	imm	imm	imm		12.7	0.011			
Ammonia (gaseous)	Vapor	7664-41-7	imm	imm	imm		20.2	0.006			
Black Liquor (mix)	Liquid	mix	>480	>480	>480	6	<0.025	0.025			
Butadiene, 1,3- (gaseous)	Vapor	106-99-0	imm	imm	imm		115	0.009			
Carbon disulfide	Liquid	75-15-0	imm	imm	imm		36	0.012			
Caustic soda (50%)	Liquid	1310-73-2	>480	>480	>480	6	<0.025	0.025			
Chlorsulfonic acid	Liquid	7790-94-5	41	41	45	2	395	0.047			
Chromic acid (CrO ₃) (44.9%)	Liquid	1333-82-0	>480	>480	>480	6	<0.025	0.025			
Dimethyl acetamide, N,N-	Liquid	127-19-5	imm	imm	25	1	16.1	0.014			
Dimethyl acetamide, N,N- (8%)	Liquid	127-19-5	>480	>480	>480	6	<0.014	0.014			
Dimethyl ketone	Liquid	67-64-1	imm	imm	imm		77.8	0.011			
Green Liquor (mix)	Liquid	mix	>480	>480	>480	6	<0.025	0.025			
Hydrochloric acid (37%)	Liquid	7647-01-0	53	54	58	2	395	0.015			
Hydrofluoric acid (48-51%)	Liquid	7664-39-3		400							
Hydrogen peroxide (70%)	Liquid	7722-84-1	>480	>480	>480	6	<0.025	0.025			
Lithium hydroxide (14.9%)	Liquid	1310-65-2	>480	>480	>480	6	<0.025	0.025			
Nitric acid (70%)	Liquid	7697-37-2	202	203	257	5	15.1	0.025			
Potassium hydroxide (45%)	Liquid	1310-58-3	>480	>480	>480	6	<0.025	0.025			
Propan -2-one	Liquid	67-64-1	imm	imm	imm		77.8	0.011			
Sodium cyanide (45%)	Liquid	143-33-9	>480	>480	>480	6	<0.002	0.002	<1	>480	6
Sodium hydroxide (50%)	Liquid	1310-73-2	>480	>480	>480	6	<0.025	0.025			
Sodium hypochlorite (15%)	Liquid	7681-52-9	>480	>480	>480	6	0.03	<0.03			
Sulfuric acid (>95%)	Liquid	7664-93-9	>480	>480	>480	6	<0.025	0.025			
Vinyl ethylene (gaseous)	Vapor	106-99-0	imm	imm	imm		115	0.009			
White Liquor	Liquid	mix	>480	>480	>480	6	<0.025	0.025			

Important Note.

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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.