



INTERNATIONAL
ENVIRO GUARD

Our advanced defensive weapons are made from protective fabric.

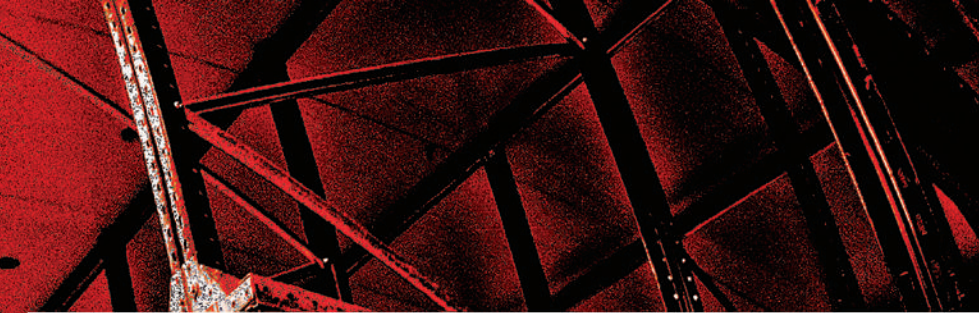


**You are under
ATTACK!**

*Think of International Enviroguard protective garments
as an arsenal of high-tech defensive weapons.*

*Like defensive weapons, our garments
are engineered to repel attacks by multiple
adversaries in hazardous environments.*

*In cleanroom environments, they prevent
invasions by particulates.*




INTERNATIONAL ENVIROGUARD WEAPONS

Industries we serve

ANIMAL RESEARCH
BIOMEDICAL
CLINICAL RESEARCH
CONSTRUCTION
CRIME SCENE CLEAN-UP
ENVIRONMENTAL
FOOD PROCESSING
INDUSTRIAL
MANUFACTURING
NUCLEAR
PHARMACEUTICAL
REMEDIATION (WATER, FIRE & SMOKE)
SAFETY
SEMICONDUCTOR
SHIPYARDS



We provide an extensive assortment of protective apparel which includes limited-use and disposable clothing, anti-static garments and other protective products for a wide array of industries.

Our factories are ISO 9001:2000 certified which allows our products to be accepted and sold globally.

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POLYPROPYLENE

Polypropylene is a lightweight, breathable fabric that provides economical protection for various work environment applications. Polypropylene is appropriate for wear in certain hazardous and non-hazardous workplaces and is a low-cost solution for protecting workers against dirt and grime.

SUGGESTED APPLICATIONS

- Industrial facilities
- Pharmaceuticals
- Food processing
- Construction
- Environmental clean-up

WARNING: It is the responsibility of the user to select garments which are appropriate for each intended use and which meet all health, safety and regulation requirements.



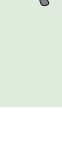
AVAILABLE GARMENTS

	P/N	SIZE		P/N	SIZE		P/N	SIZE			
	COVERALLS No collar, elastic wrists and open ankles. 25 per case Colors: White, Navy Blue	2012	Medium Large XL 2X 3X 4X		LAB COAT - OPEN WRISTS White with 1 chest pocket, 30 GSM. 50 per case	2025	Medium Large XL 2X 3X 4X		SHOE COVERS Blue anti-skid shoe covers 150 pair per case	V3100-3XL	Universal
	COVERALLS With collar, elastic wrists and ankles. 25 per case Colors: White, Navy Blue	2013	Medium Large XL 2X 3X 4X		LAB COAT - KNIT WRISTS White with 1 chest pocket, two hip pockets, 40 GSM. 50 per case	K2025	Medium Large XL 2X 3X 4X		BOUFFANTS Colors: White, Blue, Green, Red 1000 per case	110NW	19" 21" 24" 28"
	COVERALLS With attached hood, boots and elastic wrists. 25 per case Colors: White, Navy Blue	2019	Medium Large XL 2X 3X 4X		LAB COAT - ELASTIC WRISTS White, no pockets, 30 GSM.. 50 per case	2026E	Medium Large XL 2X 3X 4X		BOUFFANTS - PLEATED Colors: White, Blue, Green, Red 1000 per case	110NW-PL	19" 21" 24"
	45 GSM COVERALLS With attached hood, boots and elastic wrists. 25 per case Colors: White	2059	Medium Large XL 2X 3X 4X		LAB COAT - KNIT WRISTS White, no pockets, 40 GSM. 50 per case	K2026	Medium Large XL 2X 3X 4X		BOUFFANTS - LATEX FREE Colors: White, Blue, Green, Red 1000 per case	110NW-LF	19" 21" 24"
	55 GSM COVERALLS With attached hood, boots and elastic wrists. 25 per case Colors: White	2029	Medium Large XL 2X 3X 4X		LAB COAT Dark blue with collar and knit wrists, 55 GSM. 50 per case	K2027DB	Medium Large XL 2X 3X 4X		BEARD RESTRAINTS White. 1000 per case	112NW	Universal
					BRIEFS White briefs with elastic waist. 100 per case	1361	Universal		BEARD RESTRAINTS - LATEX FREE White. 1000 per case	112NWLF	Universal
					SLEEVES White 18" length sleeves with elastic on both ends. 250 pair per case	5501	18" length		POULTRY SMOCK 50 per case	4000WXL	Universal

PE COATED COVERALLS

PE Coated polypropylene is a light-weight, spun bonded polypropylene fabric with a polyethylene coating. Polyethylene film is impervious and non-linting. It is also strong with excellent tensile and tear resistance. Coveralls made of PE Coated polypropylene protect workers against certain chemicals, particulates, lead, asbestos, certain sprays and splatters.

AVAILABLE GARMENTS

	P/N	SIZE		P/N	SIZE
 COVERALLS White, no collar, elastic wrists, back & open ankles. 25 per case	2112	Medium Large XL 2X 3X 4X	 SHOE COVERS Duraguard. 150 pair per case	6100	Universal
 COVERALLS White with attached hood & boots. Elastic wrists. 25 per case	2119	Medium Large XL 2X 3X 4X	 BOOT COVERS Duraguard. 150 pair per case	6106	Universal
 APRONS White Duraguard. 100 per case	6102-45	35"x45"	 SLEEVES Duraguard. 100 pair per case	6500 6500-24	18" 24"
 White Duraguard. 100 per case	6102-55	35"x55"	 ISOLATION GOWN Duraguard. 50 per case	2135	Universal

VALUGUARD MP™

ECONOMICAL, LIGHTWEIGHT MICROPOROUS PROTECTION

ValuGuard MP is an economical option for microporous protection. The garments have a standard zipper, no elastic in the back and set-in sleeves.

WARNING: It is the responsibility of the user to select garments which are appropriate for each intended use and which meet all health, safety and regulation requirements.

AVAILABLE GARMENTS

	P/N	SIZE
 STANDARD COVERALL Open wrists & ankles	8112	Small Medium Large XL 2X 3X 4X 5X
 COVERALL Attached hood, elastic wrists & ankles	8115	Small Medium Large XL 2X 3X 4X 5X
 COVERALL Attached hood & boot elastic wrists	8119	Small Medium Large XL 2X 3X 4X 5X

BODYFILTER 95+®

FOR PROTECTION AGAINST PARTICULATE MATTER IN THE RANGE OF 0.3 MICRONS

BodyFilter 95+ is the first full body protective filtration garment to protect workers against dangerous noxious particulates and heat build-up. It provides amazingly high thru-fabric airflow and is calibrated for 95% - 99% hold-out of 0.3 micron particulates with an efficiency similar to an N95 respirator.

Body Filter 95+ is a durable garment with superior abrasion resistance. It's also comfortable to wear. A silky-smooth skin contact surface wicks moisture away from the body to keep workers cooler and help them avoid heat stress.

- Exceptional filtering with 95% - 99% hold-out of 0.3 micron particles
- More than 120 times the permeability of calendered olefin fabric for better air flow
- Exceptional fabric strength with superior abrasion resistance



Patent Pending

TEST SPECIFICATIONS

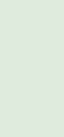
AIR PERMEABILITY† (CFM) @ 20PA	PRESSURE DROP††	PENETRATION†† (%)
8.65	0.22	0.0548

† Tested on Textest in accordance with ASTM D737 (20 Pa).

†† Tested on TSI 8130 at a flow rate of 2.3 liters/min, 100cm2 filter area using a sodium chloride aerosol having a mean particle size of 0.3 microns.

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AVAILABLE GARMENTS

	P/N	SIZE
 COVERALLS White with collar, elastic wrists and open ankles. 25 per case	4012	Medium Large XL 2X 3X 4X
 COVERALLS White with collar, elastic wrists and ankles. 25 per case	4017	Medium Large XL 2X 3X 4X
 COVERALLS White with attached hood, elastic wrists and ankles. 25 per case	4028	Medium Large XL 2X 3X 4X
 COVERALLS White with attached hood & boots. Elastic wrists & ankles. 25 per case	4014	Medium Large XL 2X 3X 4X
 LAB COATS - OPEN WRISTS White with 2 hip pockets. 50 per case	4025NE	Medium Large XL 2X 3X 4X
 LAB COATS - KNIT WRISTS White with 2 hip pockets. 50 per case	4025KW	Medium Large XL 2X 3X 4X
 LAB COATS - OPEN WRISTS White. No pockets. 50 per case	4026NE	Medium Large XL 2X 3X 4X
 LAB COATS - KNIT WRISTS White. No pockets. 50 per case	4026KW	Medium Large XL 2X 3X 4X
 SLEEVES White, 18" length with elastic on both ends. 100 pair per case	4065	Universal
 SHOE COVERS White 100 pair per case	4101	Large
 White shoe covers with vinyl soles. 100 pair per case	4100	Large

SMS & SMS+

SMS and SMS+ provide worker comfort and additional protection in the workplace. These breathable garments provide an excellent particulate barrier, along with a barrier for light splashes and spray. SMS is made with a 60 GSM fabric, while SMS+ is made with a heavier 70 GSM fabric to provide additional strength and durability without sacrificing mobility and comfort.

SMS and SMS+ are the perfect choice for general clean-up work, asbestos and lead abatement, mold remediation, manufacturing, assembly operations, laboratories and printing, as well as dirt, dust and grime environments.



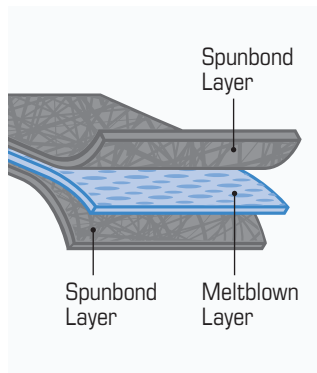
PHYSICAL PROPERTIES – SMS

PROPERTY	UNIT	AVG.	MIN VALUE INDIV.	MAX VALUE INDIV.	METHOD
Basis Weight	gsm	60.0			ATSM D3776
Grab Tensile (MD)	lbf	28.64	28.02	29.51	ATSM D5034
Grab Tensile (CD)	lbf	23.14	22.58	24.08	ATSM D5034
MD Elongation	%	35.43	34.05	38.16	ATSM D5034
CD Elongation	%	59.11	50.76	65.86	ATSM D5034
Trapezoidal Tear (MD)	lbf	13.97			INDA IST 100.2
Trapezoidal Tear (CD)	lbf	10.50			INDA IST 100.2
Air Permeability	cfm	81.80	78.80	86.20	ASTM D737'

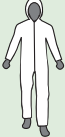
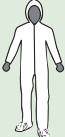
PHYSICAL PROPERTIES – SMS+

PROPERTY	UNIT	AVERAGE	METHOD
Basis Weight	gsm	69.09	ATSM D3776
MD Tensile Strength	N/5cm	31.5	ATSM D5035-95
CD Tensile Strength	N/5cm	17.3	ATSM D5035-95
MD Elongation	%	85	ATSM D5035-95
CD Elongation	%	102	ATSM D5035-95
Hydrohead	cmH ₂ O	171	IST 80.6
Trapezoidal Tear (CD)	lbf	10.50	
Air Permeability	cfm	81.80	78.80

WARNING: It is the user's responsibility to determine the proper protective apparel required for each application, since conditions of use are outside our control.



AVAILABLE GARMENTS

	SMS P/N	SMS+ P/N	SIZE		P/N	SIZE
	COVERALLS With collar; elastic wrists, back & open ankles. 25 per case Colors: White, Denim Blue	2222	2242		LAB COAT - OPEN WRISTS White, No pockets. 50 per case	2226
	COVERALLS With collar; elastic wrists, back and ankles. 25 per case Colors: White, Denim Blue	2223			LAB COAT - ELASTIC WRISTS White, 1 chest pocket, 2 hip pockets and elastic wrists. 50 per case	2227
	COVERALLS With attached hood, elastic wrists, back and ankles. 25 per case Colors: White, Denim Blue	2225	2245		LAB COAT - KNIT WRISTS White, 1 chest pocket, 2 hip pockets 50 per case	K2228
	COVERALLS With attached hood & boots. Elastic wrists and back. 25 per case Colors: White, Denim Blue	2229	2249		LAB COATS - KNIT WRISTS Blue, 1 chest pocket, 2 hip pockets 50 per case	K2228B
					SHIRTS - WHITE Long sleeve, with collar, 5 snaps and no pockets. 30 per case	2201
					PANTS - WHITE Elastic waist and no pockets. 30 per case	2200



MICROGUARD MP®

FOR SUPERIOR WORKER COMFORT,
STRENGTH AND DURABILITY

MicroGuard MP utilizes state-of-the-art lamination technology to combine a soft, non-woven fabric with a microporous film. This results in a fabric with a superior liquid barrier, better particulate barrier, stronger tear resistance and less lint than other fabrics. MicroGuard MP is an excellent alternative to TYVEK®, KleenGuard® A40 and MicroMax®.

MICROGUARD MP IS FOR USE IN, BUT NOT LIMITED TO:

- Handling/applying granular powder or dust pesticides
- Fiberglass manufacturing and installation
- Industrial research and clinical facilities
- Pharmaceutical and food processing
- Woodworking and furniture manufacturing
- Construction and asbestos abatement sites
- Chemical handling
- Tank cleaning



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PHYSICAL PROPERTIES COMPARISONS

PROPERTY	UNIT	MICROGUARD MP®	KLEENGUARD® A40	TYVEK®	METHOD
MD Tensile Strength	lbf/in	31.5	30.6	24	ASTM D5034
CD Tensile Strength	lbf/in	17.3	21.4	17.5	ASTM D5034
MD Elongation	%	85	72	31	ASTM D5034
CD Elongation	%	102	89	23	ASTM D5034
MD Tear Strength	lbf/in	13.0	11.0	6.2	INDA IST 100.2
CD Tear Strength	lbf/in	7.1	7.2	5.2	INDA IST 100.2
Hydrohead	cmH ₂ O	171	187	112	AATCC 127
Flammability		Class 1	Class 1	Class 1	CPSC 1610

PHYSICAL PROPERTIES

TEST	METHOD	RESULT
Fabric Weight (g/m ²)	GB/T 4669-1995	60.2
Water Vapor Transmission (g/m ² 24h)	GB/T 12074-1991	3200
Water Resistance (Kpa)	FZ/T 01004-1991	18.8
Flat Abrasion	FZ/T 01001-1991	198
Breaking Strength (N/5cm)	GB/T 3923.1-1997	Radial: 70 / Woof: 50
Elongation at Break (%)	GB/T 3923.1-1997	Radial: 60 / Woof: 50
Tear Strength (N/5cm)	ASTM D2261-1996	Sample cut by horizontal side, normal testing cannot be done. Woof: 8.6
Electric Charge Density (uC/m ²)	GB/T 5455-1997	6.5
Flammability	GB/T 4744-1997	Melt-down
Dry particle Filtration Efficiency		No Particle Penetration
Wet Particle Filtration Efficiency		No Particle Penetration

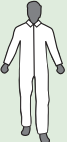
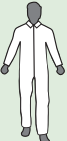
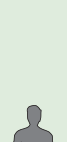
LIQUID AND CHEMICAL RESISTANCE

TEST	METHOD	RESULT
Bleach 5%	ASTM T903	Pass
Hydraulic Jack Oil	ASTM T903	Pass
Isocyanate-Based Paint Hardener	ASTM T903	Pass
Motor Oil	ASTM T903	Pass
Sodium Hydroxide	ASTM T903	Pass
Mineral Oil	ASTM T903	Pass
Blood	ASTM 1670-07	Pass

WARNING: As always, it is the user's responsibility to determine the proper protective apparel required for each application, since conditions of use are outside our control.

Kleenguard® Tyvek® and MicroMax are trademarks of their respective holders.

AVAILABLE MICROGUARD MP GARMENTS

	COVERALLS White with collar, elastic wrists & open ankles, elastic back. 25 per case	P/N 8012	SIZE Medium Large XL 2X 3X 4X		LAB COATS White with open wrists and no pockets. 50 per case	P/N 8024	SIZE Medium Large XL 2X 3X 4X		HOODS White full face with elastic face. 100 per case	P/N 8002	SIZE Universal
	COVERALLS White with collar, elastic wrists & ankles, elastic back. 25 per case	P/N 8013	SIZE Medium Large XL 2X 3X 4X		LAB COATS WITH POCKETS White with 2 hip pockets and open wrists. 50 per case	P/N 8025	SIZE Medium Large XL 2X 3X 4X		SLEEVES White 18" length with elastic on both ends. 100 pair per case	P/N 8065	SIZE Universal
	COVERALLS White with attached hood, elastic wrists & ankles. 25 per case	P/N 8015	SIZE Medium Large XL 2X 3X 4X		LAB COATS White with elastic wrists and no pockets. 50 per case	P/N 8026	SIZE Medium Large XL 2X 3X 4X		SHOE COVERS White 200 pair /case White with vinyl soles. 100 pair per case	P/N 8101 8103	SIZE Large Large
	COVERALLS White with attached hood & boots. Elastic wrists, elastic back. 25 per case	P/N 8019	SIZE Medium Large XL 2X 3X 4X		SHIRTS White, long sleeves with collar and 5 snaps, no pockets. 50 per case	P/N 8201	SIZE Medium Large XL 2X 3X 4X		BOOT COVERS 17" high, White 100 pair per case 17" high, White with vinyl soles. 100 pair/case 17" high, White with vinyl soles. 100 pair/case	P/N 8105 8102 8104 8106	SIZE XL Large Large XL
	APRONS White aprons. 100 per case	P/N 802448	28" x 46"		PANTS White with elastic waist and no pockets. 50 per case	P/N 8200	SIZE Medium Large XL 2X 3X 4X				

VIROGUARD®

FOR BLOOD-BORNE PATHOGEN AND CHEMICAL SPLASH PROTECTION

Introducing ViroGuard, a line of garments to protect against hazardous liquids in unique applications. ViroGuard holds out many dangerous liquids and particulates. It's comfortable to wear and offers breathability through enhanced moisture vapor transmission. This fabric meets the requirements of ASTM F1670/1671 testing for blood, body fluids and blood-borne pathogens.

- Category 3 black water applications
- Clinical research & facilities
- Emergency response
- Crime scene remediation
- Animal research
- Chemical handling
- Tank cleaning

PHYSICAL PROPERTIES

TEST	METHOD	RESULT
MD Tensile Strength	ASTM D5034	46 lbs
CD Tensile Strength		79.1 lbs
MD Trapezoidal Tear	ASTM D5587	13.2 lbs
CD Trapezoidal Tear		5.4 lbs
MD Elongation	ASTM D5034	19.9%
CD Elongation		154.2%
Mullen Burst	Method D 3786	33.6 psi
Flammability	CPSC 1610	Class 1

BARRIER PROPERTIES

TEST	METHOD	RESULT
Hydrohead	AATCC-127	255.2cm
Blood Penetration	ASTM F1670	Pass
Blood-borne Pathogens	ASTM F1671	Pass



AVAILABLE GARMENTS



COVERALLS

Blue with attached hood & boots. Elastic wrists, storm flap over zipper with pressure sensitive tape. 25 per case

P/N	SIZE
2404	Small Medium Large XL 2X 3X 4X 5X



COVERALLS

Blue with attached hood, elastic wrists & ankles. 25 per case

P/N	SIZE
2407	Small Medium Large XL 2X 3X 4X 5X



LAB COATS

Blue with knit collar, elastic wrists and two pockets, taped seams. 50 per case

P/N	SIZE
2425	Small Medium Large XL 2X 3X 4X 5X

LATEX NUKE BOOTS

Our durable latex boots provide excellent boot and shoe protection from water and certain other liquids. The skid-resistant and grooved sole provides the user with extra traction.



AVAILABLE GARMENTS



YELLOW LATEX NUKE BOOTS

Fits Shoe Size 10-12
50 pair per case

Fits Shoe Size 11-14
50 pair per case

P/N	SIZE
2513Y-XL	XL
2513Y-XXL	2X

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CHEMSPLASH 1®

FOR BREATHABLE, IMPERVIOUS PROTECTION

ChemSplash 1 is the first breathable chemical splash barrier for many toxic industrial chemicals. Its breathability minimizes the effects of heat stress for the wearer while remaining impervious (ISO 6350*) to hazardous chemicals. ChemSplash 1 is tested for chemical penetration and permeation resistance by exposure to accidental liquid splash from a specific list of industrial chemicals, meeting the standards for ISO 6350 & EN 368.

ChemSplash 1 combines the economy of microporous technology with a revolutionary process of creating a surface augmented with additional polymers. The resultant hybrid breathable membrane system is a transformed barrier that retains "breathability" for worker comfort while resisting many chemicals found in the workplace.

* Protection against liquid chemicals. Determination of resistance of materials to penetration by liquids.



PHYSICAL PROPERTIES

TEST (UNIT)	DIRECTION	METHOD	RESULT
Tensile Strength (N)	MD	ISO13934-1	48.3
Trapezoidal Tear (N)	CD	ISO9073-4	108.1
Bursting Strength (pa)	MD	ISO13938-1	40.7
Puncture (N)	CD	EN863	6.95
Antistatic	(Ohm)	EN1149-1	Passed (< 5x10 ⁹ ohm)
Flammability		EN1146	Passed
Synthetic Blood		ASTM F1670	Passed
Abrasion Resistance		EN530	Class 2 (> 100 cycles)
Chemical Permeation		EN374-3	Passed
Hydrostatic Resistance (cm)		ISO 811	226
M.V.T.R. (gm/m ² .mtr.24hr)		ASTM E96	Above 3000

FABRIC CHEMICAL PROPERTIES

TEST	METHOD	PENETRATION	REPELLENCY
n-Heptane 99+%		Class 3	Class 1
Dichloromethane 99.9%		Class 3	Class 1
Toluene 99.9%		Class 3	Class 1
Isopropanol 99.5%		Class 3	Class 2
Sodium Hydroxide 50%		Class 3	Class 3
Hydrochloric Acid 36-37%		Class 3	Class 3
Hydrofluoric Acid 48-50%		Class 3	Class 3
JP8 Jet Fuel		Class 3	Class 2
Sulphuric Acid 96%		Class 3	Class 3
Synthetic Blood	ASTM 1670		PASS

WHOLE SUIT TEST PERFORMANCE

TYPE 4	SPRAY TEST
Method as defined by DN14605:2005+EN468	Pass
Type 5	EN ISO 13982-1:2004
Method as defined by EN ISO 13982-2:2004	Pass
ISO 8	3,520,000 100,000
ISO 9	35,200,000 —

For questions on chemicals not listed, contact customer service: 1-800-345-5972.



AVAILABLE GARMENTS

	P/N	SIZE
 COVERALLS Yellow with elastic wrists, open ankles, storm flap over zipper with pressure sensitive tape. Taped seams. 6 per case	7012YT	Medium Large XL 2X 3X 4X
 COVERALLS Yellow with elastic wrists, open ankles, storm flap over zipper with pressure sensitive tape. Serged seams. 12 per case	7012YS	Medium Large XL 2X 3X 4X
 COVERALLS Yellow with elastic wrists & ankles. Storm flap over zipper with pressure sensitive tape. Taped seams. 6 per case	7013YT	Medium Large XL 2X 3X 4X
 COVERALLS Yellow with elastic wrists & ankles. Storm flap over zipper with pressure sensitive tape. Serged seams. 12 per case	7013YS	Medium Large XL 2X 3X 4X
 COVERALLS Yellow with attached hood, elastic wrists & ankles. Storm flap over zipper with pressure sensitive tape. Taped seams. 6 per case	7015YT	Medium Large XL 2X 3X 4X
 COVERALLS Yellow with attached hood, elastic wrists & ankles. Storm flap over zipper with pressure sensitive tape. Serged seams. 12 per case	7015YS	Medium Large XL 2X 3X 4X
 COVERALLS Yellow with attached hood & boots, elastic wrists & ankles. Storm flap over zipper with pressure sensitive tape. Taped seams. 6 per case	7019YT	Medium Large XL 2X 3X 4X
 COVERALLS Yellow with attached hood & boots, elastic wrists & ankles. Storm flap over zipper with pressure sensitive tape. Serged seams. 12 per case	7019YS	Medium Large XL 2X 3X 4X
 SLEEVES Taped seams, Yellow. 100 pair per case	7065YT	18" length
 SLEEVES Sewn seams, Yellow. 100 pair per case	7065YS	18" length
 APRONS Yellow bib-style apron. Provides full front coverage, with tie closures on the back of neck and waist. 100 per case	702846Y	28" x 46"

WARNING: This fabric and garment is not for use with some chemicals and hazardous agents and it is the user's responsibility to determine the level of risk and the proper personal protection needed.

CHEMSPLASH 2®

FOR INCIDENTAL CHEMICAL SPLASH PROTECTION

ChemSplash 2 utilizes a proprietary laminated fabric with a broad range of chemical protection. It offers increased physical strength for industrial workers engaged in mixing chemicals, clean-ups and chemical loading operations as well as those working in general chemical and petro-chemical environments.

For questions on chemicals not listed, contact customer service:
1-800-345-5972.

PHYSICAL PROPERTIES

TEST	DIRECTION	METHOD	RESULT
Breaking Strength (lbs)	MD	ASTM D 5034:2001 (C.R.E. Type)	51.728 lbs
Breaking Strength (lbs)	CD	ASTM D 5034:2001 (C.R.E. Type)	45.95 lbs
Elongation (%)	MD	ASTM D 5034:2001 (C.R.E. Type)	65.9%
Elongation (%)	CD	ASTM D 5034:2001 (C.R.E. Type)	79.4%
Tear Strength (lbs)	MD	ASTM D 5587:2003	23.60 lbs
Breaking Strength (lbs)	CD	ASTM D 5034:2001 (C.R.E. Type)	23.40 lbs

LIQUID & GAS CHEMICAL RESISTANCE TEST

CHEMICAL ASTM F1001	PENETRATION ASTM F903	PERMEATION NORMALIZED BREAKTHROUGH (MIN.) ASTM F739	RATE (MICROGRAMS / CM² MIN)
Acetone	Pass	21	1.1
Acetonitrile	Pass	32	1.8
Ammonia	N/T	>480	ND
Carbon Disulfide	Pass	Immediate	50
Chlorine	N/T	>480	ND
Dichloromethane	Pass	Immediate	>50
Ethylene Oxide	N/T	>480	ND
Diethylamine	Pass	18	>50
N,N-Dimethylformamide	Pass	109	0.4
Ethyl Acetate	Pass	18	2
N-Hexane	Pass	>480	ND
Methyl Chloride	N/T	>480	ND
Methanol	Pass	>480	ND
Nitrobenzene	Pass	98	4.2
Sodium Hydroxide(50%)	Pass	>480	ND
Sulfuric Acid(98%)	Pass	>480	ND
Tetrachloroethylene	Pass	30	9.5k
Tetrahydrofuran	Pass	Immediate	>50
Toluene	Pass	4	43

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AVAILABLE GARMENTS



COVERALLS

Gray with elastic wrists & open ankles. Storm flap over zipper with pressure sensitive tape. Taped seams.
6 per case

P/N 7212GT

SIZE
Medium
Large
XL
2X
3X
4X



COVERALLS

Gray with elastic wrists & ankles. Storm flap over zipper with pressure sensitive tape. Taped seams.
6 per case

P/N 7213GT

SIZE
Medium
Large
XL
2X
3X
4X



COVERALLS

Gray with attached hood, elastic wrists & open ankles. Storm flap over zipper with pressure sensitive tape. Taped seams.
6 per case

P/N 7215GT

SIZE
Medium
Large
XL
2X
3X
4X



COVERALLS

Gray with attached hood and boots, elastic wrists. Storm flap over zipper with pressure sensitive tape. Taped seams.
6 per case

P/N 7219GT

SIZE
Medium
Large
XL
2X
3X
4X

PYROGUARD® CRFR

FOR INCREASED CHEMICAL PROTECTION, PLUS FR PROTECTION THAT MEETS NFPA 2113

PyroGuard CRFR garments utilize a laminated International Enviroguard fabric with a broad range of chemical and FR protection. These garments offer increased durability for industrial workers engaged in mixing chemicals, clean-ups and chemical loading operations in general chemical and petro-chemical environments. PyroGuard CRFR is intended to be worn over primary FR protective coveralls to extend their life and keep them clean.

Featuring sealed seams for increased protection, the material is self-extinguishing and will not drip or melt. PyroGuard CRFR gives workers increased chemical protection against a broad range of chemicals, along with flash fire protection that meets NFPA 2113.

- Sealed seams
- Self-extinguishing
- No melting or dripping
- Intended to be worn over primary FR apparel



AVAILABLE GARMENTS

	P/N	SIZE
 COVERALLS Green with attached respirator hood, elastic wrists, storm flap over zipper with pressure sensitive tape. Taped seams. 6 per case	9115T	Medium
		Large
		XL
		2X
		3X
		4X
 COVERALLS Green with attached respirator hood, attached boots, elastic wrists, storm flap over zipper with pressure sensitive tape. Taped seams. 6 per case	9119T	Medium
		Large
		XL
		2X
		3X
		4X
		5X
		6X

CHEMICAL PROPERTIES

NT = Not Tested
IMB = Immediate Breakthrough

CHEMICAL	PENETRATION ASTM F903 TIME TO PENETRATE (MIN.)	PERMEATION ASTM F739 NORMALIZED BREAKTHROUGH (MIN.)
Acetone	>60	12
Acetonitrile 90%	>60	IMB
Acetaldehyde	>60	NT
Acrylonitrile	>60	NT
Benzene	>60	NT
Carbon Disulfide	>60	9
Crude Oil	>60	9
Dichloromethane	2	IMB
#1 Diesel	>60	15
Diethylamine	>60	IMB
Dimethylformamide	<60	IMB
Ethyl Acetate	>60	16
Ethylene Dichloride	>60	NT
Ethylene Oxide	>60	NT
Gasoline	>60	NT
Hexane	>60	>480
Hexamethylene Diisocyanate	>60	150
Hydrochloric Acid	>60	NT
JP-8	>60	NT
Jet Fuel A	>60	NT
Methanol	>60	IMB
Methyl Isobutyl Ketone	>60	NT
Methyl Mercaptan	>60	NT
Monochlorobenzene	>60	NT
Nitric Acid 70%	>60	129
Nitrobenzene	3	4
n-Butyl Acetate	>60	NT
Orthodichlorobenzene,		
Grade F	>60	NT
Para-Dichlorobenzene	>60	NT
Pentane	>60	NT
Phenol	>60	NT
Phosphoric Acid 85%	>60	>480
Sodium Hydroxide 40%	>60	>480
Styrene	>60	<1
Sulfuric Acid 96%	45	38
Tetrachlorethylene	>60	>480
Tetrahydrofuran	<1	<1
Toluene	>60	6
Trichlorobenzene Mixture	>60	NT
Xylene	>60	NT

GENERAL PHYSICAL PROPERTIES

TEST	METHOD	RESULTS
Basis Weight	PFG Method	4.95 oz/yd ²
Grab / Tensile MD	ASTM D1117 / D1682	34 lbs.
Grab / Tensile XD	ASTM D1117 / D1682	27 lbs.
Bond Strength MD	IST 110.2	197 gms
Bond Strength XD	IST 110.2	223 gms
Mullen Burst	ASTM D3786-87	35 psi
Resistivity MD	IST 70.1	2.9x10 ⁹ OHMS
Resistivity XD	IST 70.1	1.1x10 ⁹ OHMS

THERMAL PROPERTIES

TEST	METHOD	RESULTS
Vertical Flammability	NFPA 701 1989 Small Scale	Pass
	NFPA 701 2010	Pass
Char Length MD	ASTM 191A - Method 5903	4.7 in.
Char Length XD	ASTM 191A - Method 5903	4.5 in.
After Flame	ASTM F 1930	<2.0 sec.
Thermal Protective Performance (TPP) Spaced	NFPA 1971 - 97	6.8
Thermal Mannequin Test % Body Burn MD	ASTM 1903 - 3.5 sec. Over Nomex IIIA garment 6.0 oz/yd ² Heat Flux = 2.0 Cal/cm ²	25%

WARNING: PyroGuard CRFR garments are intended to be worn over primary flame resistant apparel and are flame retardant treated. This fabric and garment is not for use with some chemicals and hazardous agents and it is the user's responsibility to determine the level of risk and the proper personal protection needed.

PYROGUARD® FR

FOR LIGHTWEIGHT, BREATHABLE AND DURABLE FR PROTECTION

PyroGuard FR is a disposable line of garments, made with a tough cloth-like material that is lightweight and breathable. Topical treatment with a phosphate-based flame-retardant chemical causes the material to char. This action is vital because it deprives flames of a fuel source and provides a rigid structure to which the component polymers adhere. The result is a protective flame-resistant material with no flaming or molten drip.

When exposed to water or liquids, material containing wood pulp disintegrates. Our material does not contain wood pulp. Unlike wood pulp based products, it will not fall apart when exposed to water or liquids.

PyroGuard® FR is intended to be worn over primary FR apparel to protect it from dirt, grease and non-toxic liquids.

- Disposable garments that protect primary FR apparel
- Flame retardant
- Water repellent
- Wood pulp-free
- Generous sizing to prevent rip-outs
- High MVTR for increased worker comfort
- Passes NFPA 701, 1989 and 1999 test methods

GENERAL PHYSICAL PROPERTIES

TEST	METHOD	RESULTS
Basis Weight	PFG Method	73.3 GSM
Grab / Tensile MD	ASTM D5034-2001	34 lbs.
Grab / Tensile XD	ASTM D5034-2001	26 lbs.
Vertical Flammability	NFPA 701 1989 Small Scale	Pass
Bond Strength XD	NFPA 701 1999	Pass

WARNING: PyroGuard® garments are intended to be worn over primary flame resistant apparel and are flame retardant treated. This fabric and garment is not for use with some chemicals and hazardous agents and it is the user's responsibility to determine the level of risk and the proper personal protection needed.



AVAILABLE GARMENTS



COVERALLS

Blue with elastic wrists & open ankles, zippered front with storm flap.
25 per case

P/N
9012

SIZE

Medium
Large
XL
2X
3X
4X



COVERALLS

Blue with attached hood, elastic wrists & ankles, zippered front with storm flap.
25 per case

P/N
9015

Medium
Large
XL
2X
3X
4X



COVERALLS

Blue with attached hood & boots, elastic wrists & ankles. Zippered front with storm flap.
25 per case

P/N
9019

Medium
Large
XL
2X
3X
4X

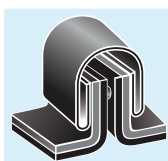
BODYFILTER CE®

FOR BREAKTHROUGH PARTICLE PROTECTION IN A BREATHABLE CLEANROOM GARMENT

BodyFilter CE is an exciting development in particulate protection, incorporating the highest quality in electrostatically charged filter media into a superior filtration system. It provides amazingly high thru-fabric airflow and is calibrated for 95% - 99% hold-out of 0.3 micron particulates with an efficiency similar to an N95 respirator.

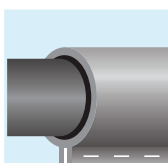
A durable garment with superior abrasion resistance, Body Filter CE is also comfortable to wear. A silky-smooth skin contact surface wicks moisture away from the body to keep workers cooler and help them avoid heat stress.

- Exceptional filtering with 95% - 99% hold-out of 0.3 micron particles
- More than 120 times the permeability of calendered olefin fabric for better air flow
- Exceptional fabric strength with superior abrasion resistance



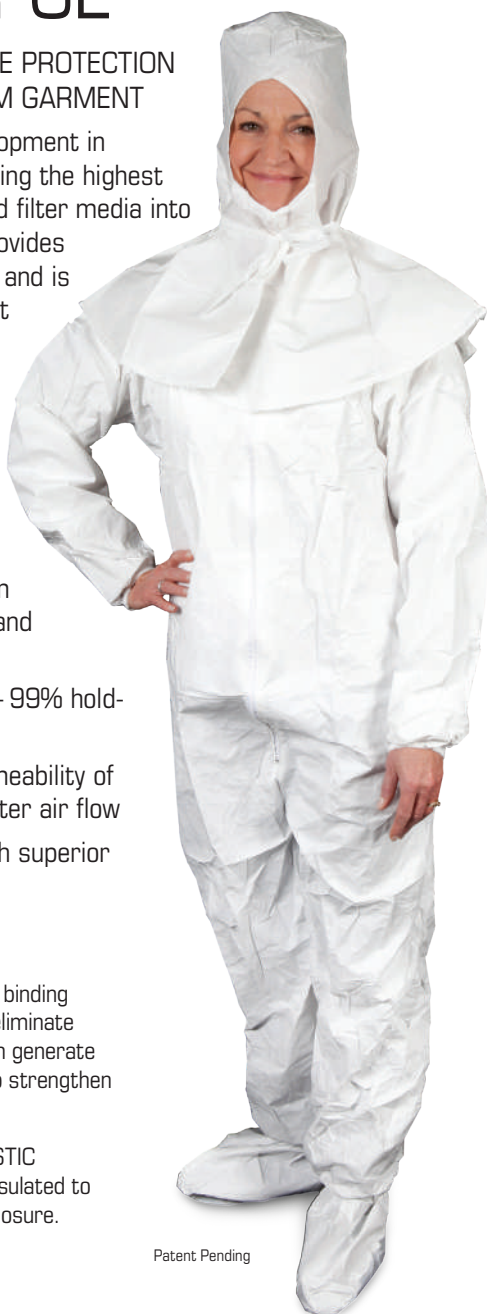
BOUND

A reinforced outer binding is tightly sewn to eliminate raw edges that can generate particulates and to strengthen the seam.



TUNNELIZED ELASTIC

All elastic is encapsulated to provide a secure closure.



Patent Pending

Body Filter
Lab Coat



AVAILABLE GARMENTS



COVERALLS

White with tunnelized elastic wrists & ankles.
25 per case

P/N

CE4017-BP

SIZE

Medium
Large
XL
2X
3X
4X



COVERALLS

White with attached hood & boots. Tunnelized wrists.
25 per case

CE4014-BP

Medium
Large
XL
2X
3X
4X



LAB COATS

White, no pockets, with tunnelized elastic wrists.
50 per case

CE4026-BP

Medium
Large
XL
2X
3X
4X



FROCKS

White, mandarin collar, no pockets, with tunnelized elastic wrists.
50 per case

CE4046-BP

Medium
Large
XL
2X
3X
4X



HOODS

White full face hoods with tunnelized elastic face. Covers the shoulders.
100 per case

CE4063-BP

Universal

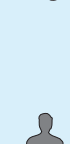


SHOE COVERS

White.
200 pair per case

CE4101-BP

Large



White shoe covers with vinyl soles.
200 pair per case

CE4103-BP

Large



White shoe covers with vinyl soles.
200 pair per case

CE4105-BP

XL



BOOT COVERS

White.
100 pair per case

CE4102-BP

Large



White boot covers with vinyl soles.
100 pair per case

CE4104-BP

Large

White boot covers with vinyl soles.
100 pair per case

CE4105-BP

XL

SLEEVES

100 pair per case

CE4065-BP

18"

CLEANROOM CLASSIFICATION

ISO CLASS	ISO CLASS LIMITS†	FS209 CLASS LIMITS††	BODYFILTER CE
ISO 3	35	1	
ISO 4	352	10	
ISO 5	3,520	100	Good
ISO 6	35,200	1,000	Good
ISO 7	352,000	10,000	Good
ISO 8	3,520,000	100,000	Good
ISO 9	35,200,000	—	Good

† (particles / m³ of air) for particles equal to and larger than 0.5 microns

†† (particles / ft³ of air) for particles equal to and larger than 0.5 microns

WARNING: Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

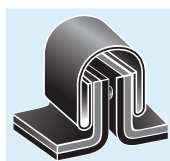
MICROGUARD CE®

FOR SUPERIOR COMFORT, STRENGTH
AND DURABILITY

MicroGuard CE utilizes state-of-the-art lamination technology to combine a soft, non-woven fabric with a microporous film. This results in a fabric with a superior liquid barrier, better particulate barrier, stronger tear resistance and lower lint than other fabrics.

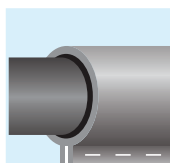
MicroGuard CE® products are made with bound seams and tunnelized elastic to eliminate raw edges, strengthen the seams, and provide secure closure. This newest line of quality garments offers superior worker comfort, along with strength and durability.

- Extremely low linting
- Breathable
- Recyclable



BOUND

A reinforced outer binding is tightly sewn to eliminate raw edges that can generate particulates and to strengthen the seam.



TUNNELIZED ELASTIC

All elastic is encapsulated to provide a secure closure.

PHYSICAL PROPERTIES

PROPERTY	UNIT	MICROGUARD CE	METHOD
MD Tensile Strength	lbf/in	31.5	ASTM D5034
CD Tensile Strength	lbf/in	17.3	ASTM D5034
MD Elongation	%	85	ASTM D5034
CD Elongation	%	102	ASTM D5034
MD Tear Strength	lbf/in	13.0	INDA IST 100.2
CD Tear Strength	lbf/in	7.1	INDA IST 100.2
Hydrohead	cmH ₂ O	171	AATCC 127
Flammability		Class 1	CPSC 1610
Water Vapor Transmission	g/m ² 24h	1500	GB/T 12074-1991

CHEMICAL RESISTANCE

TEST	METHOD	RESULT
Bleach 5%	ASTM T903	Pass
Hydraulic Jack Oil	ASTM T903	Pass
Isocyanate-Based Paint Hardener	ASTM T903	Pass
Motor Oil	ASTM T903	Pass
Sodium Hydroxide	ASTM T903	Pass
Mineral Oil	ASTM T903	Pass

WARNING: Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

AVAILABLE GARMENTS

To choose from Clean, Bulk Packaged (BP) or Clean, Individually (CI) Packaged, add BP or CI to the P/N.
(Example: CE8013-BP)

	P/N	SIZE
 COVERALLS White with tunnelized elastic wrists & ankles. 25 per case	CE8013	Small Medium Large XL 2X 3X 4X
 COVERALLS White with attached hood & boots. Tunnelized elastic wrists & ankles. 25 per case	CE8019	Small Medium Large XL 2X 3X 4X
 LAB COATS White, no pockets, with tunnelized elastic wrists. 50 per case	CE8026	Small Medium Large XL 2X 3X 4X
 FROCKS White, no pockets, with tunnelized elastic wrists. 50 per case	CE8046	Small Medium Large XL 2X 3X 4X
 HOODS White, full face with tunnelized elastic. 100 per case	CE8063	Universal
 SLEEVES White 18" length with tunnelized elastic on both ends. 100 per case	CE8065	Universal
 SHOE COVERS White. 200 pair per case White with vinyl soles. 100 pair per case	CE8101 CE8103	Large Large
	CE8105	XL
 BOOT COVERS White. 100 pair per case Boot covers with vinyl soles. 100 pair per case	CE8102 CE8104	Std. Large
	CE8106	XL

CLEANROOM CLASSIFICATION

ISO CLASS	ISO CLASS LIMITS [†]	FS209 CLASS LIMITS ^{††}	MICROGUARD CE
ISO3	35	1	
ISO4	352	10	
ISO5	3,520	100	Good
ISO6	35,200	1,000	Good
ISO7	352,000	10,000	Good
ISO8	3,520,000	100,000	Good
ISO9	35,200,000	—	Good

[†](particles / m³ of air) for particles equal to and larger than 0.5 microns

^{††}(particles / ft³ of air) for particles equal to and larger than 0.5 microns

GAMMAGUARD CE®

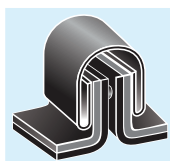
STERILE GARMENTS FOR CONTROLLED ENVIRONMENTS

GammaGuard CE offers a soft, comfortable fabric with a superior liquid barrier, low linting and strong tear resistance. All GammaGuard CE products are manufactured in an ISO-certified facility. They are sterilized to a 10^{-6} Sterility Assurance Level (SAL). Sterile-Don™ packaging utilizes a special fold design that protects against potential contamination during gowning.

GammaGuard CE products are made with bound seams and tunnelized elastic to strengthen the seam, provide secure closure and eliminate raw edges that may generate particulates.

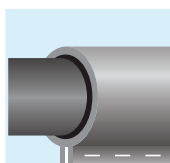
- Sterility Assurance 10^{-6}
- Breathable
- Liquid barrier
- Economical
- Certificate of sterility included in each case.

GammaGuard
CE with Full
Face Hood



BOUND

A reinforced outer binding is tightly sewn to eliminate raw edges that can generate particulates and to strengthen the seam.



TUNNELIZED ELASTIC

All elastic is encapsulated to provide a secure closure.

Patent: Pending



AVAILABLE GARMENTS



COVERALLS

White with tunnelized elastic wrists & ankles.
25 per case

P/N
CE11013CIS

SIZE
Medium
Large
XL
2X
3X
4X



FROCKS

White, no pockets, tunnelized elastic wrists.
50 per case

P/N
CE11016CIS

SIZE
Medium
Large
XL
2X
3X
4X



HOODS

White full face hoods with tunnelized elastic face.
100 per case

P/N
CE11063CIS

SIZE
Universal



SLEEVES

White 21.5" length, tunnelized elastic on both ends.
100 per case

P/N
CE11065CIS

SIZE
Universal



SHOE COVERS

White shoe covers with non-skid soles.
200 pair per case

P/N
CE11101CIS

SIZE
Large



White shoe covers with non-skid soles.
200 pair per case

P/N
CE11102CIS

SIZE
XL



BOOT COVERS

White boot covers with non-skid soles.
100 pair per case

P/N
CE11104CIS

SIZE
Large

White boot covers with non-skid soles.
100 pair per case

P/N
CE11106CIS

SIZE
XL

CLEANROOM CLASSIFICATION

ISO CLASS	ISO CLASS LIMITS†	FS209 CLASS LIMITS††	GAMMAGUARD CE
ISO 3	35	1	
ISO 4	352	10	
ISO 5	3,520	100	Good
ISO 6	35,200	1,000	Good
ISO 7	352,000	10,000	Good
ISO 8	3,520,000	100,000	Good
ISO 9	35,200,000	—	Good

† (particles / m³ of air) for particles equal to and larger than 0.5 microns

†† (particles / ft³ of air) for particles equal to and larger than 0.5 microns

*Certificate of Sterility included in each case.

WARNING: Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

SOFT SCRUBS™

FOR COMFORTABLE, DISPOSABLE PROTECTION

Soft Scrubs are made of an incredibly soft, smooth material, protecting the wearer while providing extra comfort. Easy disposal after appropriate use provides an effective way to prevent the spread of germs, bioburdens and contagions. Soft Scrubs provide modesty with complete “no show through” coverage.

- Reduces cross-contamination
- Comfortable and convenient
- Perfect to wear under sterile gowning
- Precisely cut for an easy fit



Long sleeve shirt and pant. Also available in short sleeve shirt.

CONTROLLED ENVIRONMENTS

AVAILABLE GARMENTS

	P/N	SIZE
 SHORT SLEEVE SHIRTS Denim blue with round hemmed neck, left chest pocket and right front hip pocket. 50 per case	FS2065B	Small
		Medium
		Large
		XL
		2X
 LONG SLEEVE SHIRTS Denim blue with round hemmed neck, left chest pocket and elastic wrists. 50 per case	FS2064B	Small
		Medium
		Large
		XL
		2X
 PANTS Denim blue with elastic waist, right rear hip pocket, open ankles and reinforced crotch. 50 per case	FS2062B	Small
		Medium
		Large
		XL
		2X
		3X
		4X

All Soft Scrubs are packaged 50 total pieces per case (10 pieces per bag, 5 bags per case.)



Durable, elastic waistband for a comfortable fit



Convenient rear hip pocket for the pant

CHILLOUT®

EVAPORATIVE PERSONAL COOLING

Extra-large evaporative cooling towels provide instant relief and renewed energy. A unique waffle design increases the surface area to hold more water for longer lasting cooling.

- Instant heat relief – refreshing and energizing
- Portable and easy-to-use, just add water
- Largest personal cooling towels (13" X 33")
- Economical, reusable and machine washable
- UV resistant
- Available in blue and hi-vis yellow



	P/N	COLOR
TOWELS 48 per case	C03313B	Blue
	C03313Y	High-Vis Yellow
HARD HAT INSERTS 25 per case	C025HHI	Blue
HEADBANDS 50 per case	C050HB	Blue
NECKBANDS 50 per case	C050NB	Blue



ENVIROMAT®

FLOOR SURFACE PROTECTION

Enviromat contamination control products are multi-layered pads that remove particulate contaminants from foot traffic prior to entry into a clean or controlled environment. Each numbered layer is coated with an adhesive which causes the contaminants to adhere to the pad, removing them from the sole of the footwear. Once the top layer is thoroughly soiled, it can be easily removed, exposing the next layer, which will allow the mat to return to its normal maximum efficiency.



SIZES

30 sheets/pad, 4 pads/ctn, 10 ctn per case
*30 sheets/pad, 8 pads/ctn, 10 ctn per case

18"x36"	Blue	EM1836R30B
18"x36"	Clear	EM1836R30C
24"x30"	Clear	EM2430R30
24"x30"	White	EM2430R30W
24"x36"	Blue	EM2436R30B*
24"x36"	White	EM2436R30W
26"x45"	Blue	EM2645R30B
26"x45"	White	EM2645R30W
36"x36"	Clear	EM3636R30
36"x45"	Blue	EM3645R30B



SIZES

Blue CarpetGuard - 3 mil

SIZE		P/N
24"x200'	1 Roll	EMCG324200
24"x500'	1 Roll	EMCG324500
30"x200'	1 Roll	EMCG330200
36"x200'	1 Roll	EMCG336200
36"x500'	1 Roll	EMCG336500

CARPETGUARD®

FLOOR SURFACE PROTECTION

CarpetGuard products roll out easily onto the carpet and stay in place. Made of tough 3-millimeter polyethylene material, CarpetGuard protects carpet for up to 45 days. CarpetGuard protects stairways, hallways, entrances and exits, along with high traffic areas in new construction environments as well as in existing homes and offices.

FLOORGUARD™

FloorGuard is made of a tough self-adhering 3 mil polyethylene material that provides temporary protection for hard surfaces such as tile, marble and granite along with vinyl and factory hardwoods and laminates. Works well on countertops too! FloorGuard is great for painting, remodeling, moving and new construction. Available in four put-ups to meet your customers' needs.



SIZES

Blue FloorGuard - 3 mil

SIZE		P/N
24" x 200'	1 Roll	EMFG324200
36" x 200'	1 Roll	EMFG336200
36" x 250'	1 Roll	EMFG336250
36" x 500'	1 Roll	EMFG336500



int-enviroguard.com

2400 Skyline Dr., Suite 400
Mesquite, Texas 75149
1-800-345-5972

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