components, plastic sheeting on walls and floors, and coverings of non-removable items. If insulation or acoustical materials are to be reapplied to the abated area, be certain that the encapsulant selected will permit good adhesion to the substrate. Negative air machines may be temporarily turned off while spraying encapsulant, but must be turned on immediately at completion of spray operations.

- 5.2.38 After encapsulant has dried, the two layers of polyethylene sheeting should be removed from the floor and one layer from the walls. There should remain the following in place: polyethylene layer(s) over equipment, wall and ceiling penetrations, temporary barriers separating work area from non-work areas, decontamination units, and negative pressure ventilation units.
- 5.2.39 Tools and equipment should be HEPA vacuumed, wet cleaned and removed from the work area during the cleaning phase when they will no longer be needed to perform scheduled tasks. Scaffolds, ladders and temporary lighting shall remain in the work area to facilitate final visual inspection.
- 5.2.40 Inspect the work area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the cleaning cycle repeated. Visual inspection shall not be performed until all surfaces are dry.
- 5.2.41 Following the satisfactory completion of aggressive clearance air monitoring, the remaining barriers may be removed and properly disposed of. A final visual inspection by the Precision and/or owner's representative shall insure that no contamination remains in the work area.
- 5.3 Glovebag Procedures

The start of each project requires a project layout and quality control format. The designated work area is secured by means of asbestos warning tape and signs. The information provided by the warning signs shall clearly acknowledge the health and safety hazards to potential entrants arriving at the project site. The existing (HVAC) servicing the project area shall be isolated or shutdown. Polyethylene sheeting shall be placed on the floor beneath the work area.

When these phases are completed the project may proceed. The following will serve as a guideline for glovebag abatement projects:

- 5.3.1 Mix the surfactant with water in a sprayer type mechanism as per manufacturer's directions.
- 5.3.2. Have each employee put on an approved HEPA cartridge respirator and check the face-fit.
- 5.3.3 Have each employee put on a disposable full-body suit, remembering the hood goes over the respirator straps.
- 5.3.4 Check the pipe where the work will be performed. If it is damaged (broken

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lagging, hanging, etc.), wrap the entire length of the pipe in polyethylene plastic and "candy stripe" it with duct tape. A common error when doing glovebag work is forgetting that loose pipe lagging several feet or even several yards away from the glovebag work may be jarred loose by the activity. This is one of the common causes of high airborne fiber concentrations during glovebag work. The other problem is failure to clean up debris on the floor and other surfaces which has accumulated and contains asbestos.

- 5.3.5 Slit the top of the glovebag open (if necessary) and cut down the sides to accommodate the size of the pipe (about two inches longer than the pipe diameter).
- 5.3.6 Place the necessary tools into the pouch located inside the glovebag. This will usually include the bone saw, utility knife, rags, scrub brush and wire cutters.
- 5.3.7 Place one strip of duct tape along the edge of the open top slit of the glovebag for reinforcement.
- 5.3.8 Place the glovebag around the section of pipe to be worked on and staple the top together through the reinforcing duct tape. Staple at intervals of approximately one inch. Next, fold the stapled top flap back and tape it down with a strip of duct tape. This should provide an adequate seal along the top. Next, duct tape the ends of the glovebag to the pipe itself, previously covered with plastic or duct tape.
- 5.3.9 Insert the wand from the water sprayer through the sleeve. Using duct tape, tape and seal sleeve tightly around the wand to prevent air leakage.
- 5.3.10 One person places his hands into the long-sleeved gloves while the second person directs the water spray at the work.
- 5.3.11 Once the ends are cut, the section of insulation should be slit from end to end using the utility knife. The cut should be made along the bottom of the pipe and water continuously supplied. Again, care should be taken when using the knife not to puncture the bag. Some insulation may have wires to be clipped as well.
- 5.3.12 Spray all tools with water inside the bag and place back into pouch.
- 5.3.13 The insulation can now be lifted off the pipe and gently placed in the bottom of the bag.
- 5.3.14 Using the scrub brush, rags and water, scrub and wipe down the exposed pipe inside the glovebag.
- 5.3.15 Remove the water wand from the water sleeve and attach the small nozzle from the HEPA filtered vacuum. Turn on the vacuum only briefly to collapse the bag.
- 5.3.16 Remove the vacuum nozzle and twist the water sleeve closed and seal with duct tape.

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4.0 Asbestos Abatement Policy and Procedure

- From outside the bag, pull the tool pouch away from the bag and twist it to separate 5.3.17 it from the bag. Place duct tape over the twisted portion and then cut the tool bag from the glovebag without cleaning. Alternatively, the tool pouch with the tools can be placed in a bucket of water, opened underwater, and the tools cleaned and dried without releasing asbestos into the air. 5.3.18 With the removed insulation in the bottom of the bag, twist the bag several times and tape it to keep the material in the bottom during removal of the glovebag from the pipe. 5.3.19 Remove the tape and open the top of the glovebag and fold it down into the disposal bag. 5.3.20 Remove the disposable suits and place these into the bag with the waste. 5.3.21 Twist the top of the bag closed, fold this over, and seal with duct tape. Label the bag with a warning label. 5.4Removal of Resilient Floor Tile and Floor Tile Mastic Floor Tile 5.4.1Place critical barriers over all openings to the regulated area. 5.4.2 Tiles in areas exposed to heavy foot traffic will usually adhere the tightest. Therefore, select those areas exposed to the least amount of foot traffic for starting removal. 5.4.3 Individual tiles should be removed as a complete unit in as large a piece as possible. Water with "wetting agent" (dishwashing detergent or commercially prepared surfactant) may be used to soak tiles loose. 5.4.4 Continue loosening by prying tiles with a long-handled scraper and apply a mist of water as work progresses. 5.4.5Removed materials should be placed in a heavy duty (6 mil) plastic bag for proper disposal. HEPA vacuums shall be used to clean floors after abatement 5.4.6 Mastic 547 Place critical barriers over all openings to the regulated area and polyethylene sheeting 3 feet up all walls adjacent to mastic removal.
 - 5.4.8 Apply mastic remover with the sprayer on a section of the mastic to be removed. Apply enough product so that during agitation you are working with material that has the consistency of motor oil.

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- 5.4.9 Using the floor squeegee, push the liquefied mastic from one section to the next as removal progresses. Add additional mastic remover as needed to maintain the consistency of motor oil.
- 5.4.10 Soaking of the mastic should not be necessary. Follow the manufacturer's instructions as indicated. Immediate agitation with the course bristle broom will accelerate the removal of the mastic.
- 5.4.11 Using the absorbent, pick up the liquefied mastic and dispose of in accordance with Federal, State, County and Local regulations.
- 5.4.12 Mop and rinse all abated surfaces with 110°F water and deodorizing detergent.
- 5.5 Disposal Procedures
 - 5.5.1 As the work progresses, to prevent exceeding available storage capacity on site, scaled and labeled containers of asbestos containing waste shall be removed and transported to the prearranged disposal location.
 - 5.5.2 Disposal must occur at an authorized site in accordance with Federal, State and Local regulations.
 - 5.5.3 All dump receipts, trip tickets, transportation manifests or other documentation of disposal shall be delivered to the building owner for his records. The manifest shall include the names and addresses of the building owner, Precision Environmental Company, job location, disposal site, the estimated quantity of the asbestos waste and the type of containers used. The form should be signed by the owner, Precision Environmental, and disposal site operator, as the possession of the material changes hands.
 - 5.5.4 Once drums, bags and wrapped components have been removed from the work area, they shall be loaded into an enclosed truck for transportation. The enclosed cargo area of the truck shall be free from debris and lined with 6 mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extended up the sidewalls. Wall sheeting shall be overlapped and taped into place.
 - 5.5.5 Drums shall be placed on level surfaces in the cargo area and packed tightly together to prevent shifting and tipping. Large structural components shall be secured to prevent shifting of bags.
 - 5.5.6 Personnel loading asbestos containing waste shall be protected by disposable clothing; including head, body and foot protection and at a minimum, half-face piece, air-purifying, dual cartridge respirators equipped with HEPA filters.

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4.0	Asbestos A Policy and Pr		Precision Environmental Company <i>Health & Safety</i>
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	5.5.8	equipment consisting	containers at the disposal site shall wear protective of disposable clothing; including head, body and foot um, half-face piece, air-purifying, dual cartridge respirators iters.
	5.5.9	-	of all containerized waste, the truck cargo area shall be IEPA vacuums, and/or wet methods to meet the "no visible

5.5.9 Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums, and/or wet methods to meet the "no visible residue" criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing, in bags or drums at the disposal site.

Section 8

License, Worker's Compensation, Insurance

STATE OF OHIO DEPARTMENT OF HEALTH

ASBESTOS HAZARD ABATEMENT CONTRACTOR LICENSE

Be it known that **Precision Environmental Company** is hereby licensed, having qualified as required by law in accordance with rules adopted by the Public Health Council relative to Asbestos Contractors.

In Witness whereof, I have subscribed my name and affixed the seal of the Department of Health State of Ohio on **February 07, 2011** in the city of Columbus.

License number: AC1154

Effective Until: F

February 26, 2012

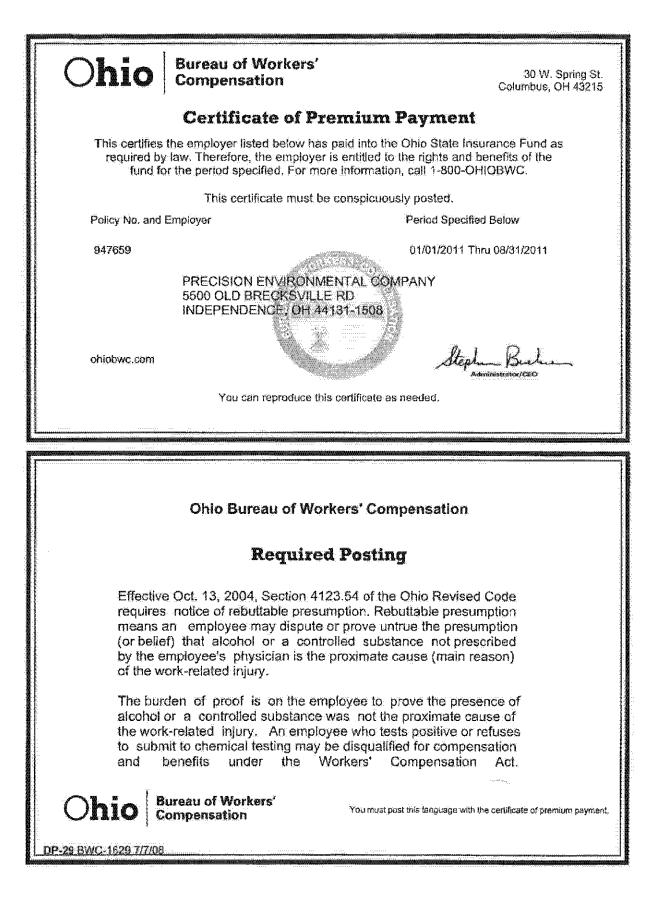
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In witness thereof

Karen F. Hughes Acting Director Ohio Department of Health

HEA 5208 (rev. 1/02)





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Product Data and Material Safety Data Sheets



PENEWET

DESCRIPTION

Product No.: 6450 clear

Penewet is an ready-to-use, colorless wetting agent/surfactant solution incorpororating advanced concepts in surface chemistry. It provides powerful wetting, penetrating and coalescing of asbestos containing materials (ACM) to permit handling and removal of these materials under damp, dust-free conditions. Penewet is a nonflammable water based nontoxic liquid which will not corrode aluminum components of spray equipment.

PROPERTIES

- Solids by Weight: 10 +/-2%
- Volatile: Water
- Average particle size: 0.2 microns
- Viscosity @ 77°F: 50-55 Krebs Units
- Weight per gallon @ 77°F: 8.8 lbs.
- Ionic nature: Non-lonic
- · Flammability: Non-flammable
- Phosphate free?: Yes
- · Surface tension: 31 dynes/cm.
- · Coverage: 500 sq.ft./gal.
- Shelf Life: @ 77°F, 36 months minimum, (in original factory sealed containers).
- · Odor: Applied indoors, virtually odorless.
- Packaged: 5, and 55 gallon containers

APPLICATION INFORMATION

<u>SURFACTANT/WETTING AGENT</u>: Penewet is a ready-to-use formulaiton. Scaling microscopic residual fibers after asbestos removal is mandatory on every project. Prior to post-removal air monitoring, apply one coat to all exposed surfaces prior to post removal air monitoring.

<u>PULLDOWN BY MISTING</u>: Pulldown by misting the contaminated air is an effective technique prior to post removal air-monitoring. To pull down free-floating asbestos fibers effectively, stand in the center of the room and hold the spray gun as close to the ceiling as possible. A mist should be sprayed parallel to the ceiling in every direction or in a circle. Apply one coat to the polyethylene walls and floor.

(Over)



FIBERLOCK TECHNOLOGIES, INC.

150 Descemb Road Andover, MA 01810, U.S.A. Toll Free: (800) 342-3755 TeL: (978) 623-9987 Fax: (978) 475-6205 www.fiberlock.com

APPLICATION PROCEDURES FOR PENEWET ASBESTOS WETTING COMPOUND

PREPARATION

Prior to application, stir thoroughly to achieve a uniform consistency. Penewet is pre-mixed, water addition is not necessary.

APPLICATION EQUIPMENT

Professional models of all brands of spray equipment can be used to successfully apply Penewet. Use the settings below when applying Penewet:

Pressure: 2500-2700 psi Hose length: 100 feet Hose diameter: 1/4 inch Tip size: .015 - .027 (orifice size) Fan size: 12 inches

CLEAN UP

Tools and drippings should be cleaned with soap and water before coating dries.

SHIPPING AND STORAGE INFORMATION

Shelf Life: 3 years in scaled containers Storage Temperature: Keep from freezing. Store in a dry place at temperatures between 40°F - 100°F Flash Point: None.

KEEP OUT OF REACH OF CHILDREN FOR PROFESSIONAL USE ONLY KEEP FROM FREEZING

Caultons: Approved respirators must be used in prevent initialation of asbestos fibers that may be present in the air. Protective detailing should be swern. Tools and drippings should be cleaned immediately with clean, soapy water before the coating dries. Careful consideration should be given to all Europeanental Protection Agency (EPA), OSHA and state regulations in effect at the time of application of Penevet. The SFA, through the Office of Pesificiles and Toxic Substances has issued reports instaled "fundance for Controlling Frable Asbestos-Containing Materials in Buildings," EPA 560/5 65-024, June 1985, and "Menaging Asbestos in Place, A Huilding Controlling Staterials in Buildings," EPA 560/5 45-024, June 1985, and "Menaging Asbestos in Place, A Huilding Controlling Trable Asbestos-Containing Materials in Buildings," EPA 560/5 65-024, June 1985, and "Menaging Asbestos in Place, A Huilding Controlling Trable Asbestos Controlling frable Asbestos Containing Materials in Buildings," TOP 500/5 4001, 1990, containing the proper data, cautions, and procedures for asbestos control. Copies are available from the Environmental Assistance Division, TS-799, TSCA Assistance Information Service, U.S. EPA, 401 M Street SW, Washington, DC 20460, [202] 554-1404.

Keep from freezing. Do not store at temperatures above 1007F.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of this product are beyond our control. Neither Fiberlack Technologies, inc., nor our agents shall be responsible for the use or results of use of this product or any procedures or apparatiz maniform. We recommend that the prospective user determine the suitability of Penewet for each specific project and for the health and safety of personnel working in the area.

2836

MATERIAL SAFETY DATA SHEET

(Essentially similar to OSHA form 174, Sept. 1985 - For Compliance with OSHA's Hazard Communication Standard, 29CFA 1910.1200)

Section I - Product Identity:	Penewei ^s (6450)
Manufacturer's Name:	Date of Preparation: September 15, 2002
Fiberlock Technologies, Inc.	Information Telephone Number: (978) 623-9987
150 Dascomb Road	Emergency Telephone Numbers:
Andover, MA 01810	Weekdays: (978) 623-9987
	After hours, weekends & holidays: (978) 887-5926, or
	"CHEM-TEL" Emergency Contact Number: (800) 255-3924

Section II - Hazardous Ingredients/Identity Information

HAZARDOUS	COMMON		CAS.	OSHA	OR	ACGIH
OOMPONENT	NAME(S)	26	NO.	PEL.		TLV
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None per the limits for reporting set forth in 29CFR 1910.1200

Section III - Physical/Chemical Characteristics

Boiling Points of Major Constituent: (Water)	212"F	Specific Gravity (H ₂ O=1) Wgt./gal.	1.01
Vapor Pressure (mm Hg) @ 68°F	N/D	Melting Point Water (Ice)	32°F
Vapor Density (AIR=1) Heavier Lighter	ND	Evaporation Rate (Butyl Acetate=1)	Slower
Solübility in Water	Complete	Appearance: Clear solution Odor: Odorless	

Section IV - Fire and Explosion Hazard Data (Nonflammable)

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Flash Point:	Flammable Limits:	DOT Ha	zard Class:	Marking:	· · · · · · · · · · · ·
None	LEL: N/A UEL:N/A	Not Reg	dated	*Keep From	Freezing"

Special Firefighting Properties: N/A Unusual Fire Explosion: N/A

Section V - Reactivity Data

Hazardous Polymerization: Won't occur Stability: Stable Incompatibility: N/A Hazardous Decomposition: N/A. Conditions to Avoid: N/A

Section VI - Health Hazard Data, Toxicity Data

Route(s) of Entry: None for skin, inhalation and ingestion. Carcinogenicity NTP: No IARC Monographs: No OSHA Regulated: No Signs Symptoms: N/A Health Hazards (Acute and Chronic): N/A Medical Conditions: N/A

EMERGENCY AND FIRST AID PROCEDURES: Eyes: Flush with water. Skin: Wash with scap/water. Remove contaminated clothing. Ingestion: Induce vomiting. Seek immediate medical attention. Inhatation: Remove to tresh air.

SUPPLEMENTAL INFORMATION

To comply with New Jersey DOH Right-To-Know tabeling law (N.J.A.G. 8:59 - 5.1 & 5.2)

CAS. No.:	CHEMICAL INGREDIENTS:	HMIS HAZARD BATING
7732-18-5 68131-39-5	Water Alcohol ethoxytate	Hesthi 1 Flammability C Reactivity O Personal Protection A
64-02-8	Tetrasodium EDTA	HAZARD INDEX: 0=Minimet, 1=Slight, 2=Moderate, 3=Serious, 4=Severe
Not Avail.*	Alkoxylated linear alcohol	PERSONAL PROTECTION CODE
Not Avail.* Contents partially uni	Hydroxyethyl.cellulose known	A=Bately Classes

Section VII: Precautions for Safe Handling and Use

IN CASE MATERIAL IS RELEASED OR SPILLED: Flush area with water. Mop up and hold for disposal. WASTE DISPOSAL METHOD: Any method in accordance with local, state and federal regulations. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container sealed when not in use. Do not store at elevated temperatures. OTHER PRECAUTIONS: Eye protection recommended. Ventilation: N/A

Section VIII: Control Measures

RESPIRATORY PROTECTION: None needed PROTECTIVE GLOVES: N/A EYE PROTECTION: Use safety eyewear including side shields, face shields, or chemical splash goggles (ANSIZ-87.1 or approved equivalent). OTHER PROTECTIVE EQUIPMENT: N/A WORK HYGIENIC: N/A

//// PRODUCT DATA

FIBERSET "PM

DESCRIPTION

Product No.: 7470 white, 7475 clear, 7480 blue

Fiberset PM is a pre-mixed "lockdown" sealing treatment for microscopic residual fibers present after removal of asbestos containing material (ACM). Fiberset PM is a ready-to-use, class "A" fire rated coating that provides a flexible barrier over residual fibers to insure final air clearance. Fiberset PM and Fiberset FT are the only UL*classified (#R13770) lockdowns accepted for fluted, cellular and corrugated deck assemblies. Fiberset PM is compatible with most leading brands of replacement fireproofing and flooring adhesives. Fiberset PM can also be used to penetrate asbestos contaminated soil in crawl spaces. Fiberset PM is a water based nontoxic coating which employs advanced 100% acrylic resin technology to extend the life expectancy of airless spray equipment.

UL Classification: ASTM E-119

UL Category: Encapsulant Materials

PROPERTIES

- Volatile: Water
- Average particle size: 0.2 microns
- Viscosity @ 77°F: 55-60 Krebs Units
- Weight per gallon @ 77°F: 8.5 lbs.
- · Film Hardness: Excellent
- · Film Flexibility: Excellent
- Impact Resistance: Excellent
- Water resistance of dry film: Excellent
- Bond Strength to concrete/steel: Excellent
 Coverage: not less than 500 so ft (m)
 - Coverage: not less than 500 sq. ft./gal. (as specified by UL)
- Flash point: Tag Closed Cup, Non-combustible water based product.
- Dry Time 1 2 hours
- Shelf Life: @ 77°F, 36 months minimum, (in original factory sealed containers).
- · Odor: virtually odorless.
- · Finish: slight gloss
- · Packaged: 5, and 55 gallon containers



LOCKDOWN: Sealing microscopic residual fibers after asbestos removal is mandatory on every project. Prior to post-removal air monitoring, apply one coat to all exposed surfaces. Fiberset PM has been accepted as part of a UL Classified Fireproofing System for use with Retro-Guard* manufactured by W.R. Grace & Co., Conn.

SSI

<u>PULLDOWN BY MISTING</u>: Pulldown by misting the contaminated air is an effective technique prior to post removal air-monitoring. To pull down free-floating asbestos fibers effectively, stand in the center of the room and hold the spray gun as close to the ceiling as possible. A mist should be sprayed parallel to the ceiling in every direction or in a circle. Apply one coat to the polyethylene walls and floor,

(Over)



FIBERLOCK TECHNOLOGIES, INC.

150 Dascomb Road Andover, MA 01810 U.S.A. Toll Free: (800) 342-3755 Tel.: (978) 623-9987 Fax: (978) 475-6205 www.fiberlock.com

APPLICATION PROCEDURES FOR FIBERSET PM

PREPARATION

Prior to application, stir thoroughly to achieve a uniform consistency. Fiberset PM is pre-mixed, water addition is not necessary.

APPLICATION EQUIPMENT

Professional models of all brands of spray equipment can be used to successfully apply Fiberset PM. Use the settings below when applying Fiberset PM:

Pressure: 2500-2700 psi Hose length: 100 feet Hose diameter: 1/4 inch Tip size: .015 - .025 (orifice size) Fan size: 12 inches

CLEAN UP

Tools and drippings should be cleaned with soap and water before coating dries.

SHIPPING AND STORAGE INFORMATION

Shelf Life: 3 years in scaled containers Storage Temperature: Keep from freezing. Store in a dry place at temperatures between 40°F - 100°F Flash Point: Nonc.

Note: Fiberset PM is part of a UL Classified Fireproofing System for use with Classified types RG and RG1 cementitious mixtures manufactured by Zonolite Construction Products Division W.R. Grace & Co., Conn.

KEEP OUT OF REACH OF CHILDREN FOR PROFESSIONAL USE ONLY KEEP FROM FREEZING

<u>(Auttions:</u> Approved respirators must be used to prevent inbulation of asbestos fibers that may be present in the air. Protective clothing should be word. Tools and droppings should be deaned immediately with clean, seary water before the coating dries. Careful consideration should be given to all Environmental Protection Agency (SPA). OSHA and state regulations in effect at the draw of application of Piberset PM. The SPA, through the Office of Pesticides and Traic Substances has insured reports headed 'Guidance for Controlling Friable Asbestos-Containing Materials in Emiliangs,' SPA 560/5-185-024, June 1985, and "Managing Asbestos in Place, & Silliding Orane's Guide to Operation's and Maintenance Programs for Anteriots Controllars,' 207-2073, July 1990, containing the proper data, cautions, and procedures for asbestos control. Copies are available from the Environmental Assistance Division, TS-799, TSCA Assistance Information Service, U.S. EPA, 401 M Street SW, Washington, DC 20460, (202) 554-1404.

Keep from freezing. Do not store at temperatures above 100°P.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of his product are beyond our control. Neither Fiberhock Technologies, Inc., nor our agents shall be responsible for the use or wallts of use of this product of any protectives or apparatus manifolds. We recommend that the prospective use determine the subability of Fiberset TM for each specificproject and for the health and safety of personnel working in the area.

3458

MATERIAL SAFETY DATA SHEET

(Essentially similar to CSHA form 174, Sept. 1985 - For Compliance with OSHA's Hazard Communication Standard, 29CFR 1910.1200)

Section I - Product Identity:	Fiberset FT*, (6470,6475) Fiberset PM (7470,7475, 7480)
Manufacturer's Name:	Date of Preparation; September 15, 2002
Fiberlock Technologies, Inc.	Information Telephone Number: (978) 623-9987
150 Dascomb Road	Emergency Telephone Numbers
Andover, MA 01810	Weekdays: (978) 623-9987
	After hours, weekends & holidays: (978) 887-5926, or "CHEM-TEL" Emergency Contact Number: (800) 255-3924
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Section II - Hazardous Ingredients/Identity Information

HAZARDOUS	COMMON.	 CAS.	OSHA OR	ACGIH	st.
COMPONENT	NAME(S)	 NO	PEL.	TLV	
Titanium dioxide	(same)	13463-67-7		ACGIH TWA 10 mg/m ³	

Section III - Physical/Chemical Characteristics [See reference note(s) No. 1, 2 on Reverse]

Boiling Points of Major Constituent: (Water)	212°F	Specific Gravity (H,O=1) Wgt./gal.	8:5
Vapor Pressure (mm Hg) @ 68°F	17	Melting Point Water (Ice)	32°F
Vapor Density (AIR≃1) Heavter Lighter	X	Evaporation Rate (Butyl Acetate≕1)	Slower
Solubility in Water	Total	Appearance: liquid Odor: slight eder	Maximum VOC's 100 g/l (.09 lbs/gal)

Section IV - Fire and Explosion Hazard Data (Nonflammable)

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Section V - Reactivity Data

Hazardous Polymerization: Will not occur.

Stability: Stable

Incompatibility: Avoid Contact with: Strong oxidizing agents (a.g., hitric acid, permanganates), etc. Hazardous Decomposition Products: Some carbon monoxide.

Section VI - Health Hazard Data, Toxicity Data

Route(s) of Entry: N/A Caroinogenicity?: No

Health Hazards (Acute and Chronic): N/A

EFFECTS OF OVEREXPOSURE: Inhalation: Vapors or spray mists may be slightly tritating to eye, nose, throat, and mucous membranes of respiratory tract producing symptoms of headache, nausea in poorly ventilated areas. Skin Contact: Prolonged or repeated contact with coating may cause slight skin tritation. Eye Contact: Direct contact, inconsequential eye irritation.

EMERGENCY AND FIRST AID PROCEDURES: Inhaiation: Remove to fresh air. Eye and Skin Contact. Immediately flush eyes with plenty of water for at least 15 minutes and consult physician; wash skin thoroughly with scap and water. If drenched, remove and wash clothing before reuse, trigestion: If swalkowed, call a physician immediately. If victim is conscious, give 2 glasses of water. Never give anything to an unconscious person. Treat symptomatically.

TOXICITY INFORMATION: The effects of overexposure shown in Section VI are based on acute toxicity profiles for a number of special emulsions that are compositionally similar to this product. Typical values are: Rat, oral LD 50:>5.0 g/kg; Rabbit, dermail LD 50:>5.0 g/kg; Rabbit, skin initiation: practically non initiating --72 hour Mean Initiation Score = 0 to 2: Rabbit, eye initiation: Inconsequentially initiating.

SUPPLEMENTAL INFORMATION

To comply with New Jersey DOH Right-To-Know labeling law (N.J.A.C, 8.59 - 5.1 & 5.2)

CAS. No.:	CHEMICAL INGREDIENTS:
7732-18-5	Water
13463-67-7	Titanium dioxide (#6470 % 7470 only)
57-55-6	Propytene glycol
Not Avait.*	Proprietary defoamer
Not Avail.*	Acrylic resin solids
*Contents partially unknown	

	HMIS HAZARD RATING	
ŀ	Health 1. Flammability 0 Physicst Hazard 0 Personal Protection A	
	HAZARD INDEX: ()=Minimal. 1=Slight, 2=Moderate, 3=Serious, 4=Severe	
i	PERSONAL PROTECTION CODE	
	A=Safely Glasses	

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary people away. Floor may be slippery; use care to avoid falling. Dike and contain material with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and runoff out of municipal sewers and open bodies of water.

WASTE DISPOSAL METHOD: The coating and any contaminated diking material should be thoroughly air dried and collected into drums. The drums should then be sealed and properly labeled with waste designation and landfill or incinerated according to current local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Maximum storage temperature 100°F. Keep closure tight and container upright to prevent leakage. Precautionary Labeling: "Keep from Freezing".

OTHER PRECAUTIONS: Do not get in eyes. Avoid skin contact. Prevent prolonged or repeated breathing of vapors or spray mists. Do not handle until the manufacturer's safety precautions and label instructions have been read and understood. Avoid breathing sanding dust.

Section VIII: Control Measures

RESPIRATORY PROTECTION: None required if good ventilation is maintained. Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for concentrations and types of air contaminants encountered. Use approved chemical/mechanical filters designed to remove particulates in open and restricted ventilation areas. Use MSHA/NIOSI I-approved airline type respirators or hood in confined areas.

VENTILATION: Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits. All application areas should be ventilated in accordance with OSHA regulation 29CFR Part 1910.94.

PROTECTIVE GLOVES: Impervious gloves should be worn if prolonged skin contact is likely. Use neoprene or rubber gloves to prevent prolonged skin contact.

EYE PROTECTION: Use safety eyewear including side shields, face shields, or chemical splash goggles (ANSIZ-87.1 or approved equivalent).

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Use protective cream if prolonged skin contact is likely.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using the washroom. Food or beverages should not be consumed anywhere this product is being applied.

References:

- Sax, N.L, "Dangerous Properties of Industrial Materials", 8th ed., Van Nostrand Reinhold Company, Inc., NY, 1992.
- American Conference of Governmental Industrial Hygienists, "TLV's and Biological Exposure Indices" for the current year (published annually).
- U.S. Code of Federal Regulations (CFR) U.S. Dept. of Labor, No. 29, Parts 1900 to 1910.1200.
 OSHA Communications Standard 29 CFR 1910.1200.
- Sax, N.I., R.J. "Hazardous Chemicals Desk Reference", Van Nostrand Reinhold Co., Inc., NY, 1987.
- 5. Fire Protection Guide to Hazardous Materials, 12th edition, National Fire Protection Association, Quincy, MA, 1997.
- Title III List of Lists, U.S. Environmental Protection Agency publication EPA 560/4-90-011, January 1990.



MATERIAL SAFETY DATA SHEET - Spray Rite 8 oz. Spray Adhesive

6810 Cochran Road				d: 06/05/06 Phone: Chem-T Phone: 440/914	Fel 800/255-	3924
<u>Section 1 – Product Identification</u> Name: Spray Rite 8 oz. Spray Adhesive						
<u>Section 2 – Hazardous Ingredients</u>						
Ingredient	CAS No.	OSHA PEL	TWA TLV	STEL	SARA 313	WT % (Optional)
Acetone	67-64-1	750	750	1000	*****	20 - 30
Propane	74-98-6	1000	1000	Asphyxiant		20 - 30
Hexane	110-54-3	50	50		X	15 - 20
Isobutane	75-28-5	N/A	800	N/A		5 15

Section 3 - Health Hazard Information:

Effects of Overexposure:

Inhalation: Can cause irritation to the nose and throat. High concentrations may cause headaches, dizziness, nausea and confusion.

Eye: May cause eye irritation.

Skin: May cause transient skin irritation.

Ingestion: May cause gastrointestinal irritation.

Other: Reports have associated prolonged and repeated occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Section 4 - First Aid Procedures

<u>Swallowing</u>: If swallowed, do not induce vomiting. Call poison control center, hospital emergency room or physician immediately.

<u>Inhalation</u>: Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention.

Great Lakes Textiles:

Spray Rite Spray Adhesive - 2e:





MATERIAL SAFETY DATA SHEET - Spray Rite 8 oz. Spray Adhesiye

Eve: Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get medical attention.

Skin: Remove contaminated clothing. Wash affected area with soap and water. Get medical attention if irritation persists.

Section 5-Physical Data

Boiling Point Vapor Pressure PSIG @ 70° F Vapor Density Appearance and Odor: Specific Gravity: Melting Point: % Volatile: -40°F to 160°F 70 approx. 2.5 Clear light amber solution 0.6 N/A 80%

Section 6- Fire and Explosion Data

Flash Point and Method: -40°F TCC	Flammable Limits: 1.8 LEL 12.0 UEL
Unusual Fire and Explosion Hazards:	Aerosol cans may rupture when heated.
Extinguishing Media:	Use water fog, dry chemical, foam or carbon dioxide.
Special Fire Fighting Procedures:	Heating of contents above 130°F may cause cans to burst.

Section 7 - Reactivity Data

Stability: Conditions to Avoid:	Stable Storing in high temperatures or exposing to open flames.
Incompatibility (Conditions to avoid):	None
Hazardous Decomposition Products:	Carbon Monoxide and Carbon Dioxide.
Hazardous Polymerization:	None

Section 8 - Spill or Leak Information

Revised: 03/15/07

Great Lakes Textiles

Spray Rite Spray Adhesive - Ze



MATERIAL SAFETY DATA SHEET - Spray Rite 8 oz. Spray Adhesive

<u>Steps to be taken in case material is released or spilled</u>: Eliminate all sources of ignition. Permit only properly protected workers in the aria with skin/eye protection and self contained breathing gear. Absorb small spills with inert absorbent material. Contact state, local, and federal agencies to ensure compliance with current regulations.

Waste disposal method: Waste must be disposed of according to local, state and federal regulations.

Section 9 – Personal Protection Information

Respirator Protection: If the LTV's listed in Section 2 are exceeded, use a properly fitted NIOSH/MSHA approved respirator. **Ventilation:** Local and mechanical ventilation are recommended to keep any hazardous ingredients listed in Section 2 below the lowest exposure limit. **Hand Protection:** Resistant plastic or rubber recommended. **Eve Protection:** Wear safety chemical splash goggles. **Other Protective Equipment:** Not likely to be needed.

Section 10 – Special Precautions

Precautions To Be Taken In Handling and Storage: Store cans in a cook, dry and well ventilated area away from all ignition sources. Prolonged exposure of cans to elevated temperatures may cause cans to rupture or burst.

Section 11 - Disclaimer

The information presented in this MSDS represents the most accurate known presentation of this product. However, due to the many and diverse variables in its end use, it is the end users responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary.

Revised: 03/15/07

Great Lakes Textiles

Spray Rite Spray Adhesive - 20

Half Masks

7700 AND 5500 SERIES HALF MASKS



The North 7700 half mask is the industry standard for comfort, fit and reliability. For over 25 years the North 7700 has proven itself, protecting workers in some of the harshest environments. Why settle for a copy, when you can have the original? The North 5500 is the economical choice for the occasional user, contractors or as a "visitor's mask". The North 5500 has many of the same features as the 7700 mask, but made with an elastomeric material.

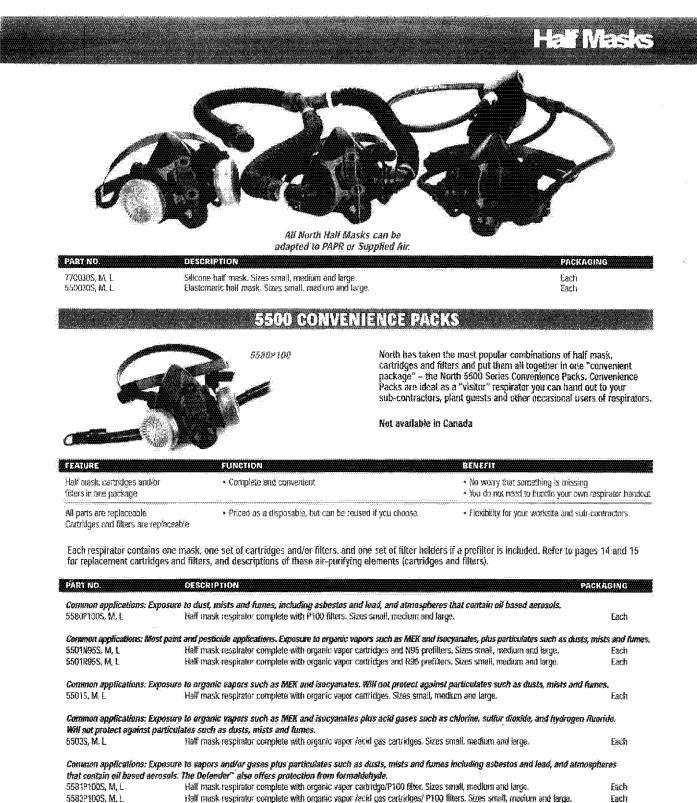
Cartridges and filters sold separately. Refer to pages 14 and 15 for a complete listing.

FEATURE	FUNCTION	BENEFIT
GENERAL		
Can be adapted to PAPR or Supplied Air	 Flexible for multiple work environments 	 No need to inventory, train workers and fit test them on several respirators
Only 9 replacement parts – and all parts are replaceable	 Quick and easy to strip down and clean Less Inventory 	+ Cost savings in maintenance
Both the 7700 & 5500 are latex free	No latex allergens	Safe for your workers with allergies
Low "dead air" space	Less exhaled breath is re-breathed	Increased worker productivity
Strategic placement of exhalation valve	· More breath is exhaled out of the mask faster	Workers feel cooler, more comfortable
FACESEAL		
Variable thickness in sealing area.	 Nose area is flexible enough to conform to the bridge of the nose, but not too thin to collapse. Built up thin area supports the mask, maintains fit even while the wearer is tolking. Sides are medium thickness to maintain a seal without pressure points. 	 Superior comfort without sacrificing fit
Wide, contoured sealing area	 Improved fit for more facial types 	 More people will fit in a medium, so you have less inventory of alternate sizes
Överlapping sizes	 Fits a wider range of facial types 	• Get the best fit possible for each of your workers
HEAD STRAP		
Expanded engle on cradle suspension is lixed Into position	 More secure it that will not skp Workers can not wear it incorrectly 	 Ideal for workers in active jobs Less training on proper doming
HeadStraps have dual elasticity Top straps have less stretch Bottom straps provide more stretch	Holds the respirator in place No constraints as worker turns head side to side	 More secure fit More comfortable, will not plinch Will not pull on the mask and jeopardize the seal
Parking' leature	 Mask is still handy and at the ready when not worn 	· Workers can get back to work quickly after a brea
MASK MATERIAL		
7700 is 100% silicone no fillers	 No chance of latex allergens More durable, greater chemical resistance. More comfortable then other masks 	 Worry free for you and your workers Like new after other masks have quit. increased user acceptance
5500 is elastometric with a silicone biend	 Economical Sofier than other elastomeric masks No chance of latex allergens 	 ideal for occasional use or for sub-contractors More comfortable and better fit than other economy masks



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EAB CERCLA 106(b) 12-01 001197



 Source roots in L
 How means respirator complete with Defender" multi-contaminant carridges/P100 filters. Sizes small, medium and large.
 Each

 SSSCP100S, M.L
 Half mask respirator complete with Defender" multi-contaminant carridges/P100 filters. Sizes small, medium and large.
 Each



www.northsafety.com

11

Cartridges/Filters for Air-Purifying Respirators



North offers a complete line of cartridges and filters for the North 5500, 7700, 5400 and 7600 Series facepieces. All cartridges and filters listed below are interchaogeable with any of these masks. Filters for Limited Use respirators, canisters for gas masks, and PAPR cartridges are listed in this catalog with those products.

NORTH ESLIFE PROGRAM FOR CARTRIDGE CHANGE SCHEDULES

OSHA's Standard for Respiratory Protection, §29 CFR 1910.134, requires Employers to implement a change schedule for all vapor and gas cartridges when there isn't an end-of-service life indicator on the cartridge. This schedule must be site specific and take into consideration worksite humidity, worker breathing rate as well as contaminant concentrations.

The North estille Program is designed to help you with your cartridge change schedule, providing information on a cartridges life based on your worksite parameters. Visit the North web site www.northsafety.com to learn more and try the North estile Program.

PART NO.	DESCRIPTION	PROTECTION FROM	PACKAGING
 gas an	D VAPOR CARTRIDGES		
75SC	Defender~ Multi-Purpose	Organic vapors, ammonia, methylamine, formaldehyde and acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide (escape), hydrogen fluoride and chlorine dioxide)	Pär
N75001	Organic Vapur	Organic vapors	Pair
N76002	Acid Gas Cartridge	Acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide (escape), hydrogen fluoride, and chlorine dioxide) and formaldehyde	Pair
N75003	Organic Vapor & Acid Gas	Organic vapors and acld gases (chlorine, hydrogen chloride, sullur dioxide, hydrogen sulfide (escape), hydrogen fluoride and chlorine cioxide)	Paír
N75004	Ammonia & Methylamine	Ammonia and methylamine	Pair
N750052	Mercury Vapor Garbidge with ESLI	Mercury vapor and chlorine with End-of-Service Life Indicator (ESLI) for mercury	Pair
COMBI	WATION GAS AND VAPOR CA	RTRIDGES WITH P100 PARTICULATE FILTERS	
75SCP100	Defender "Multi-Purpose wäh P100	Organic vapors, ammonia, methylamine, formaldehyde and acid gases (chibrine, hydrogen chloride, sulfur dioxide, hydrogen sulfude (ascape), hydrogen fluotide and chlorine dioxide); and 99.97% filter efficiency for all particulates	Paîr
7581P100	Organic Vapor with P100	Organic vapors; and 99,97% filter efficiency for all particulates	Pair
7582P100	Acid Gas with P100	Acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide (escape), hydrogen fluoride and chlorine dioxide) and formaldehyde; and 99,97% filter efficiency for all particulates	Par
7583P100	Organic Vapor & Acid Gas with P1CO	Organic vapors and acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide (escape), hydrogen fluoride and chlorine dioxide); and 99.97% fitter efficiency for all particulates	Pair
7584P100	Ammonia & Methylamine with P100	Ammonia and methylamine; and 99.97% filter efficiency for all particulates	Pair
75852P10	0 Mercury Vapor with ESLI and P100	Mercury vapor and chlorine with End-of-Service Life Indicator (ESL) for mercury; and 99.97% filter efficiency for all particulates	Pair



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EAB CERCLA 106(b) 12-01 001199

Cartridges/Filters for Air-Purifying Respirators



I

PART NO.	DESCRIPTION	PROTECTION FROM	PACKAGING
PARTICUL	ATE FILTERS		
75009100	P100	99.97% filter efficiency for all particulates	Pair
75FFP100	Pancake: Low profile P100 filter for use under welding helmets	99.97% filter efficiency for all particulates	Pair
75EEP100NL	Palicale with odot reflet: Low profile P100 filter for use under welding helmets:	99.97% filter efficiency for all particulates; plus relief from odors caused by nuisance levels of organic vapors, acid gases and ozone	Pair
7506N95	N95 Prefilter	95% filter efficiency for non-oil based aerosol particulates	10 per Pack
2506R95	R9S Préfilter	95% filter efficiency for all particulates. Restricted to 8 hours service life if used in atmospheres containing oil-based aerosols	10 per Pack
7506N99	N99 Prefilter	99% liker efficiency for non-oil based aerosol particulates	10 per Pack
PARTICULI	TE FILTER ASSEMBLIES		
7535FFP100	Stack Pack: Pancake with Adapter	93.97% filtër efficiency for all particulates factudës orie palif of N750035 adapter to attach the Pancake to Nonth cartridges. May not be used with the Defender cartridges.	5 Páir filters & 1 Páir adapter
7531N95	N95 Filter Assembly	95% filter efficiency for non-oil based aerosol particulates Includes 7506N95 prefilters, N750027 filter covers and N750015 Filter retainers for use on half mask or full facepiece when cartridges are not used.	'T Pair

95% filter efficiency for all particulates. Restricted to 8 hours service life if used in atmospheres containing oil-based aerosols includes 7506R95 prefilters, N750027 filter covers and N750015 1 Pair filter retainers for use on half mask or full facepiece when cartridges are not used.

HIM AREA (HENCHAS

7531895

The National Institute of Occupational Safety and Health (NIOSH) classifies filters in two ways, type and efficiency. Using these classifications there are mine possible filter groups. The most commonly used are N95 as the most occoronical, and P100 providing the highest possible protection. The classifications are defined on the right.

Type N Not for use in atmospheres that contain oil based aerosols.

- R Restricted to eight hours of service life if used in atmospheres that contain all based aerosols.

Efficiency

- 95 95% minimum filter efficiency in removing particulates. 99% minimum filter efficiency 99
 - in removing particulates.
 - 100 99.97% minimum filter efficiency in removing particulates.

P Oil Proof. May be used without restrictions in atmospheres that contain oil based aerosols.

R95 Filter Assembly

PROTECTION FROM

PACKAGING

ACCESSOR			
Ń750035	Pancake Adapter	Albuws user to stack the Pancake on a North cartridge, cenverting the Pancake to a P100 prefilter. May not be used with the Defender.	Each
N760015	Filter Holder	Holds prefilters onto North half and full faceplaces, Must be used with N750027 Filter cover.	Each
N750027	Seal Check / Filter Cover	Sneps on top of prefikers to hold them in place on North cartridges or on N750015 filter holder	Each
N750029	Shower Cap	For use with 7560P100, Deflects moisture during a "Decon" shower	Each



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PART NO. DESCRIPTION

15

DuPont Tyvek The best balance of protection, durability and comfort

With Tyvek* you don't have to compromise. That's because Tyvek* delivers the best balance of protection, durability and comfort. Made using a proprietary manufacturing process, Tyvek* features an inherent barrier. So, unlike other protective apparel fabrics, which have either a film or coating that can be easily scratched or worn away, Tyvek* provides barrier through the entire fabric. As a result, your protection is not compromised unless the fabric has been completely torn—which isn't easy to do because of the strength and durability of Tyvek* Make sure you're getting Tyvek* Ask for it by name.

Barrier Protection You Can Trust, Durability That Isn't Easily Compromised

- Tyvek* is the industry standard for dry particulate barriers. Microscopic particles as small as 0.5 microns can't pass through Tyvek*—even after it's been abraded.
- Tyvek^{er} is an inherent barrier—not easily scratched or worit away.



Conviort You'd Never Expect

Standing still, your body radiates heat and moisture vapor. So, it's no surprise that working in protective appared that can't breathe escalates the problem dramatically and can affect productivity. It's called heat stress. And, it can seriously compromise your safety, especially in hazardous environments.

- * Tyvek* lets air and moisture vapor pass through.
- · Tyvek is anti-static treated.
- Tyvek® breathes, Breathability is a key factor in reducing heat stress.
- Tyvek^a is six times more breathable than microporous film gament materials.
- Tyvek* SoftWear* is even more comfortable and four times as breathable as traditional Tyvek*
- Tyvek* SoftWear* has a dramatically softer feel,

Proven Performance and Quality

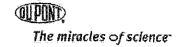
At DuPont Reisonal Protection, our goal is to combine scientific innovation with material, garment and manufacturing knowledge to create protective apparel that helps the people who wear PPE perform at their best. Both DuPont manufacturing facilities are certified to ISO 9001(1994.

Garment Styles To Meet Your Needs

- Tyviek® is available in a wide variety of garment styles, such as coveralls, labcoats, smooks and aprons.
- Tyvek® SoftWear* is available in four coverall styles.

Wide Range of Applications

- · General Maintenance Operations
- Construction & Agricultural
- Lead & Asbestos Abatement
- Environmental Clean-up
- Modestly Garments (Hospitals & Police)
 - & Police) · Forensics
- · Environments where cross contamination is an issue



- Spray Painting
- Food Processing
- Mold Remediation
- Abrasive Blasting

Tyvek and Tyvek SoftWear

Physical Properties

PROPERTY	UNITS	TYVEK*	TYVEK* SOFTWEAR*	
Bæsis Weight	erz /ydł	1,2	1 . C.	
Thickness	ពារវិន	j at	6.0	
Tóngue Tear, MD	Ці <u>т</u>	2.2	2,2	
Tongue Tear, CD	lbf	乙醇	Zin H.	INDEX OF CODES: <=:lass.than
Stáp Tensíle, MO	taŕ	7,9	.¥.Q.	These results are measured using the fatest ASTM test methods. Results
Strip Tensile, CU	ltif	8:7	<u>8</u> .4	will vary due to the chauges in test methods. A top test of periodisione is in use.
Mullen Burst	psī	50	ŝ	
Porosity	₩m²/min/mm H _c Q	3.0	18.6	
Static-Log R	T log ohms	×9.8	<9.8	
Hammability	15 CHH 1610	Class 1	Class 1	

This information is based upon rechnical dwa that DuPont balleves to be reliable, it is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no ebligation or lability in connection with this information.

It is the user's responsibility to determine the level of toxitiky and the proper personal protective equipment needed. The information set forth herein relifects laboratory performance of fabrics, not complete garments, under controlled conditions, it is intended for information use by persons having technical skill for evaluation under their specific end-use conditions, at their bwind discription and risk.

Anyone intending to use this information should first verify that the gamment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough timbs and higher permeation rates then the fabric. Please contact the gamment manufacturer for specific asta. If fabric becomes form, shraded or punctured, end user should discontinue use of gamment to avoid potential exposure to chemical. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE AND ASSUME NO LIABILITY WHATSOEVER IN CONNECTION WITH ANY USE OF THIS INFORMATION.

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WARNINGS:

 Typel* is not flamo-resistant and should not be used around heat, flame, sparks at in potentially flammable or explosive environments.
 Garments made of Typel* should have slip-resistant or entistip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could next.

For more information:

Visit our website at;

www.PersonalProtection.DuPont.com

DuPont Personal Protection Fax-On-Demand Service at 1-800-558-9329

DuPont manufactures a complete line of garments for personal protection.

For more information, call 1-800-931-3456

DuPont Personal Protection

WPIND The miracles of science

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Tychem[®] SL

Lightweight protection of Tyvek® laminated with a chemical-resistant Saranex

Tychem® SL delivers effective protection against a range of chemical environments. Tychem® SL, utilizing Saranex® 23-P film laminated to Tyvek® brand protective material, is a lightweight, comfortable garment specifically designed for easy wear. Tychem® SL is ideal for chemical mixing, remediation, emerency medical response, paint spraying, and radioactive environments.

Tychem® SL is used in a variety of industries, including environmental clean-up operations, waste management, industrial plants, cleanroom applications, hazardous material response teams and other emergency services. General garment construction/wear guidelines should be followed according to the specific application.¹

Visibility

When workers wear high-visibility colors it improves how well they can be recognized and distinguished from the background. Obviously, safety is enhanced when workers can be clearly see coworkers. The Tychem® SL standard white color provides the highest level of visibility in low and dim light; however, it may have low contrast. White gaments provide high contrast visibility in wooded areas adn low contrast against snow. In a laboratory study, Tychem® SL received high overall ratings for visibility for dim light and bright light. Contrast was low against bright, light colored backgrounds, but very high against dark and outdoor backgrounds.²

Durability

Tychem® SL is rugged and durable even in cold tempe Tychem® SL offers little change in stiffness when expo extreme cold temperatures (-65°C to 20°C or -85°F to 8 measured per ASTM D747.

Permeation

Tychem® SL is the only fabric laminated with Saranex® DuPont provides permeation data and technical suppor provides permeation data and detailed information on h perform against chemical classes in a variety of forms, choose Fax-On-Demand, website, CD-ROM or our eve printed Permeation Guide³ for DuPont Tychem® Protec

Nuclear Environments

A study was conducted by Southwest Research Institute on fabrics com, potentially radioactive environments. The study of the fabrics' ability to water vapor and tritlum gas penetration showed Tycherri® SL was 150. PVC after three hours of exposure. The study states, "when it is desire: penetration of follum, data suggest that the wearer may work three hou-SL, as opposed to only half an hour in other fabrics".

Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

CHEMICAL NAME	PHYSICAL PHASE	AVERAGE NORMALIZED BREAKTHROUGH TIME (minutes)	AVERAGE PERMEATION RATE (ug/cm?/minute)	
Acetone	L	> 24	1.6	
Acetonitrile	L	12	2.8	
Ammonia	G	32	0.15	
1,3-Butadiene	G	> 480	< 0,02	
Carbon disulfide	1	immed.	>50	
Chlorine gas	G	> 480	< 0.01	
Dichloromethane	Ĺ	immed.	>50	
Diethylamine	L	12	>50	
N,N-	· L	112	0.85	INDEX OF CODES

http://www.tyvek.com/na/protectiveapp/english/products/selector/techsl.htm

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Dimethylformamide				·
Ethyl acetate	L	14	0.54	⇒ ≃ greater than
Ethylene oxide	G	immed.	8.4	\approx = less than L = liquid, G = gas
n-Hexane	1_	146	0.48	lmmød. = immediate
Hydrogen chloride	G	> 480	< Q.1	(<10 minutes)
Methanol	Ĺ	>480	<0.001	Numbers reported are averages of samples tested by ASTM F739 test
Methyl chloride	G	> 480	< 0.006	method. Sample results do vary and
Nitrobenzene	L	102	2.3	therefore averages for these results are reported.
Sodium hydroxide. 50%	Ľ	> 480	< 0.1	.
Sulfuric acid (conc.)	L	> 480	< 0.1	
1,1,2,2- Tetrachloroethylene	Ĺ	immed.	5.7	
Tetrahydrofuran	L.	immed.	>50	
Toluene	L	immed.	25	

CHEMICAL NAME	PHYSICAL PHASE	CAS #	AVERAGE NORMALIZED BREAKTHROUGH TIME (minutes)	CHEMICAL NAME	PHYSICAL PHASE	CAS #	AVERAGE NORMALIZED BREAKTHROUG TIME (minutes)
Acetone	L	64-19-7	>480	Methanol	L	67-56-1	>480
Acetic anhydride	L	108-24-	>480	Methyl bromide	G	74-83-9	>480
10		7	2 - 1999 - 1999	Methyl chioride	G	74-87-3	>480
Acrylic acid	L	79-10-7	>480	Methyl ethyl	1	96-29-7	>480
Acrylonitrile	L	107-13-	>480	ketoxime	_		
 A subscript relation 	1	7664-	5 10D	Methyl t-buyl ether	L.	1634- 04-4	>480
Ammonia		4 1-7	>480	n-Methyl-2-	*	872-50-	E 480.
Ammonium hydroxide,	Ľ	1336-	>480	pyrrolidone	L	4	>480
28%-30%		21-6		4.4 Methylene			
Benzene	L	71-43-2		bis (o- chloroaniline),	L	101-14-	>480
Benzo[a]pyrene	S	50-32-8		_sat_sol. in	L	4	-400
Black liquor	L	123465 36-1	>480	Imethanol			
Chamideize 727 ND		mixture	>480	I Mineral oil	L	8012- 95-1	>480
Chlorine, 20 ppm	G	7782- 50-5	>480	Mineral spirits	.L.	64475- 85-0	>480
Chloroacetone	L	78-95-5	480	Nicotine	L	54-11-5	450
Chromic acid, 60%	L	1333- 82-0	>480	Nitric acid, 70%	Ē	7697- 37-2	>480
o-Cresol	L,	95-48-7	>480	K	~	10102-	160
Crude oil	L	8002- 05-9	>480	Nitrogen dioxide	Ģ	44-0	>480
1,1- Dichlorotetrafluoroethane	, L	374-07- 2	>480	Oleum, 40% free SO ₃	Ĺ	8014- 95-7	>480
Diethylaniline crude	r L	91-68-7	>480	PCB	Æ	11097-	>480
Diethyl-m-toluidine crude	, L	91-67-8	>480	PCB 1%, Mineral		69-1 11097-	
Ethylene glycol	L	107-21	>480	spirits 99%	Ļ	69-1	>480
Formalin (Formaldehyde	í	1 50-00-() >480	PCB 50%, Mineral oil 50%		11097- 69-1	>480

http://www.tyvek.com/na/protectiveapp/english/products/selector/techs1.htm

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	37%)				PCB 50%,		44007	
	Formic acid	L	64-18-6	>480	Trichlorobenzene 50%	L	11097- 69-1	>480
	Fuël oil	Ĺ	mixture	>480				
	Gluteraldehyde,5% aqueous solution	Ļ	111-30- 8	>480	PCB gas condensate	Ĺ	10097- 69-1	401
	Green liquor	L	68131- 30-6	>480	Phenol, 85%	Ĺ	108-95- 2	>480
	Hexamethyldisilizane	Ł.	999-97- 3	>480	Phenyl ethyl alcohol	Ļ.	98-85-1	>480
	Hydrazine	L.	302-01- 2	>480	Phosphoric acid, 85%	·Ļ	7665- 38-2	>480
	Hydrochloric acid, 37%	Ľ	7647- 01-0	>480	Potassium acetate, sat, sol. in water	L	127-08- 2	>480
	Hydrofluoric acid, 48%	L	7664- 39-3	>480	Sodium hydroxide, 50%		1310- 73-2	>48C
	lodine	S	7553- 56-2	>480	Sodium hypochlorite,	L	7681-	>480
	Mercuric chloride, sat	L	7487- 94-7	≫480	17%	,	52-9	
1	sol. in water		7439-		Sodium hypachlorite,		7681-	. 100
1 and	Mercup	L	97-6	~480	5:25%	ŧ_	52-9	>480
	Methanesulfonic acid	i.	75-75-2	>48Ö	Suffur dioxide	G	7446- 09-5	>480
					Sulfuric acid	L	7664- 93-9	>480
					1,1,1,2- Tetrafluoroethane	L,	811-97- 2	>480
					Toluene-2,4- diisocyanate	L	584-84- 9	>480
					Triethylamine	Ĺ	121-44- 8	>480
					White liquor	L	68131- 33-9	>480

> = greater than, L = liquid, G = gas, S = solid

Physical Properties of Tychem® SL	Chemical Warfare Agents				
	3 @ ~~~~~d2	AGENT	TIME	CUMULATIVE PERMEATION	P
Basis Weight (ASTM D3776-90)	3.6 oz/yd²	HD, Sulfur Mustard	3 hours	<0.1 µg/cm²	
Thickness (ASTM D1777-75)	13 mils	L. Lewisite	6 hours	<0.1 µg/cm ²	
Mullen Burst (ASTM D3786-87)	73 psi				
12 ° €	•	GB, Sarín	6 hours	<0.00012 µg/cm²	
Breaking Strength Grab (md/cd) (ASTM D5034-90)	47/50 lbs	₩X	12 hours	<0.00012 µg/cm ²	
Tearing Strength Trapeziod (md/cd) (ASTM D1117-80)	9/8 lbs	Applied at 10g/m² in 1µt. drops at 2 <= less than			50%

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For more information:

For specific permeation data and breakthrough times for other chemicals:

DuPont Protective Apparel

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 WHATSOEVER 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

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Fax-On-Demand Service at 1-800-558-5907

Visit our website at: www.TyvekProtectiveApprl.com.

DuPont manufactures a complete line of chemical protective fabrics made of Tychem® and fabric made of Tyvek® for dry particulate protection. For more information, call 1-877-797-5907

WARNINGS:

1) Tychem® BR is not frame-resistant and should not be used around heat, frame, sparks, or potentially frammable or explosive environments.

2) Garments made of Tychem® BR 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. reflects laboratory performance of fabrics, not complete garments, under controlled conditions. It is intended for information use by persons having technical skill for evaluation under their specific anduse conditions, at their own discretion and risk.

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 elosures have shorter breakthrough times and higher permeation rates than the fabric. Please contact the garment manufacturer for specific data. If fabric becomes torn, abraded or punctured, end user should discontinue use of garment to avoid potential exposure to chemical. Since conditions of use areoutside our control, we make no warranties, expressed or implied, including, without limitation, no warranties of merchantability or fitness for a particular use and assume no liability whatsoever in connection with any use of this information.

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Water Efficiency

Air Filtration Equipment Indoor Air Quality Stages of Filtration Equipment Options Water Filtration Floor Tile Equipment Request A Brochure

Partable Sijjaner #9165

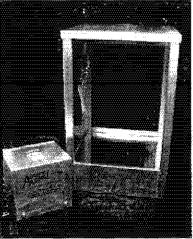
The ORIGINAL COLLAPSIBLE telescoping decontamination shower is easily set up by two men in a matter of seconds.

Features:

- * MADE IN U.S.A.
- * Lightweight aluminum construction
- 🔆 100 Micron drain filter
- * Removable curtain

* Two (2) Handles for E-Z Handling Dimensions: (Open) 31" X 30" X 83" Dimensions: (Closed) 31" X 31" X 48" Weight: 100 lbs.

CLICK HERE FOR THE PARTS LIST



#9115 Two Stage Pump and #9105 Collapsed Shower

Two Stoge (Pa**na #9115**

Features:

- 茶 MADE IN U.S.A.
- * Enclosed aluminum container
- * Galvanized plumbing
- **★** 5 Micron and 50 Micron filtration
- ✤ 12 Gallons per minute
- * Weight: 36 lbs.
- * 1/2 H.P. Motor

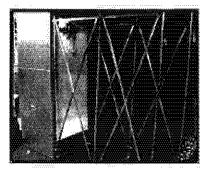
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ire/lixit Frame Model

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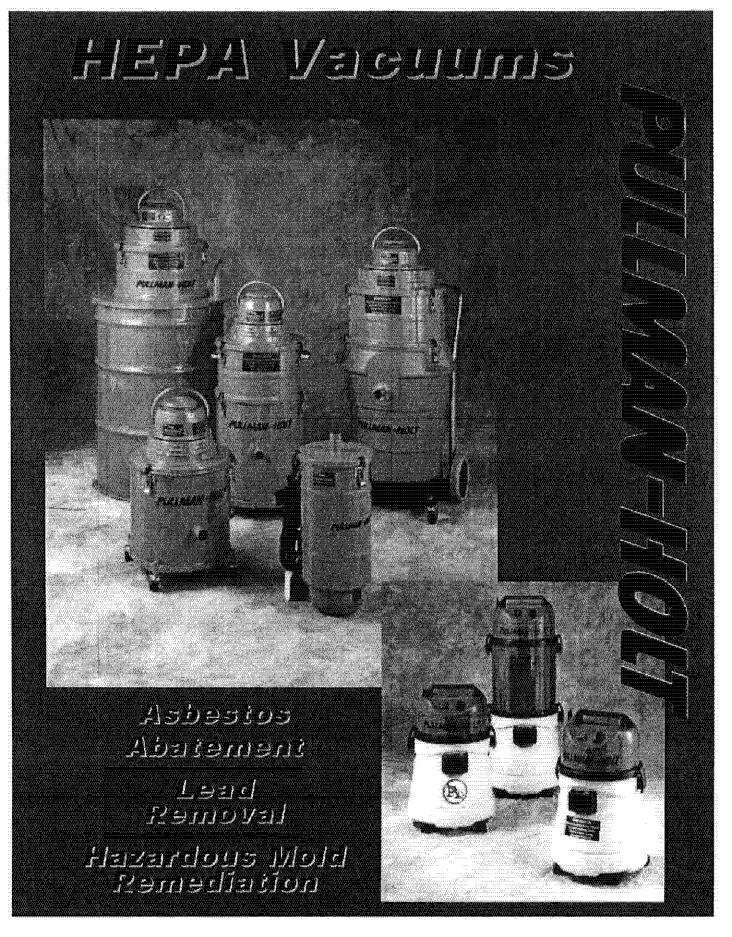
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Decontamination frames are 32" wide which can be used to form "tunnels" from one contaminated area to another. They can also form a passageway from a decontamination trailer to a work area, or can be used with the Aero-Porta Shower for airlock chambers.



Aerospace America, Inc. ~ 900 Harry Truman Pkwy. ~ Bay City, MI 48706 1-800-237-6414 ~ 989-684-2121 ~ Fax: 989-684-4486

....¢



f you're doing professional abatement work, you need a continuous duty heavy grade vacuum. You need one that does the job right the first time, every time. Pullman-Holt understands your needs and has developed a line

of HEPA vacs that are up to whatever challenge you can put them to. From backpack style vacs to huge drum canister vacs, there's something for every type of operation. We know that, as a busy professional, you don't have time to shop for a new vacuum every time your old one breaks down, not to mention the financial considerations. That's why we've designed all Pullman-Holt HEPA vacs with quality and long service-life in mind. And, we proudly stand behind our products with a warranty that's unsurpassed in. the safety/environmental industry. So, take a few minutes now to look over this brochure and select the models that will best suit your needs. Once you place your order and receive your Pullman-Holt vac(s), you won't have to think about your vacuum equipment any more. It'll. just be there, ready to go when you are. Now that's peace of mind!

 Model

 Biblisher

O ur super heavy-duty drum style HEPA vac, model 102, sits atop a steel drum to create the ultimate in vacuum recovery capacity. This unit features an unsurpassed 55 gallons of wet recovery capacity and a whopping 7.2 bushels of dry capacity. When the job seems daunting, the 102 Drum model fits the bill. Drum not included.

- ¥2HP, 2 stage by-pass motor, 11.1 AMPS, 105 waterlift, 110 CFM
- ¥ Louvered head diffuses exhaust air to prevent excessive air disturbance.
- ¥ Complete tool kit; 10 hose, floor brush, metal wand, floor squeegee and round brush
- ¥ 25 foot power cord
- ¥Vacuum motor warranty 3 years

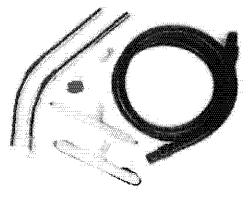
The 102ASB-12P, is one of our most popular HEPA vacs and a true work-horse for heavy-duty service in professional abatement work. Its 2HP, two-stage, long-life motor provides superior vacuum recovery for everything from dry, light particulates to wet, heavy debris. The standard 102 model features a heavy duty poly tank, and is equipped with a high-efficiency drop-in HEPA filter individually certified to have minimum. efficiency of 99.99% at.3 microns (based on 1EST-RP-CC007 particle count test method). For further filtration, a polyester prefilter is located on the bottom of the HEPA filter and is held firmly in place with Velcro fasteners. Additionally, a dacron filter bag (dacron material sheds dust to maintain vacuum efficiency) covers the entire spacer sleeve and HEPA filter for three-stage filtration. In addition our paper bag provides an extra filtering area and is used in trapping and holding the bulk of any recovered material and can be easily disposed (for dry use only).

¥2 HP, 2 stage by-pass motor, 11.1 AMPS, 105 waterlift, 110 CFM

- ¥ Louvered head diffuses exhaust air to prevent excessive air disturbance.
- ¥ Uses an air seal gasket between the motorhead and the tanks for a positive lock fit
- ¥ Complete tool kit; 10 hose, floor brush, metal wand, floor squeegee and round brush
- ¥Vacmobile handle and cart w/8 rear wheels and 2.5 front casters for easy transport
 ¥ 25 foot power cord
- ¥Vacuum motor warranty 3 years



MODEL 102ASB-12P (B160421)



Wet/Dry Tool Kit: (B160056) ¥5 two-piece metal wand (B521007) ¥10 x 1.5 crushproof hose (B000311) ¥ 14 floor brush tool (B527095) ¥ 14 ABS floor squeegee (B527094) ¥ Round dusting brush (B000394) HEPA filter system hepa filter. (B160009) spacer sleeve (B700306) prefilter (B700017) dacron filter bag (B000517) disposable paper bag (B524253)

EAB CERCLA 106(b) 12-01 001211

MODEL 86ASB54C (B160419)

TICHAM HOIT

the 86ASB dry and wet/dry, is a compact steel vac that's small and light enough to be easy to carry or transport, yet rugged enough to handle the toughest jobs. It's designed to work in tight areas and is available in dry or wet/dry (5-gal. wet recovery capacity)

versions. The 86 is powered by an efficient 1HP motor that delivers a respectable 96cfm. This is a high-efficiency unit featuring a dropin style HEPA filter individually certified to have a minimum efficiency of 99.97% at .3 microns (based on 1EST-RP-CC007 particle count test method). For full three-stage filtration, Pullman-Holt includes a dacron filter bag that covers the entire spacer sleeve and HEPA filter. (Dacron material sheds dust to maintain maximum vacuum efficiency.) And, the model 86ASB includes

the same high quality tool kit included with our 102ASB series: 10'x1.5" crushproof hose; 5-foot two-piece metal wand; 14-inch ABS floor brush tool; 14-inch floor squeegee tool (not included with 86ASB5D4C);

and a round dusting brush. For ease of use and portability, the 86ASB includes a 25-foot power cord.

HEPA filter system

hepa filter (B526520) prefilter (B527302) spacer sleeve disposa (B700344) (B70040 dacron filter bag (B000517)

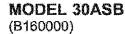
disposable paper bag (B700408)

MMAN - MARI

MODEL

(B160420)

86ASB5D4C







HEPA filter system hepa filter (B700000) disposable paper bag (B160007)

Then it comes to lightweight, portable backpack style vacs, the model 30ASB by Pullman-Holt is the proferred vac. Its 1HP motor delivers an impressive 101cfm. The model 30ASB is ideal for use in elevated or hard-to-reach areas. It makes quick work of sampling or glove bag work. And we've thought of everything when it comes to building power and efficiency right into this model. An air seal gasket between the motorhead and tanks forms a positive lock fit. As with many of our other HEPA vacs, the 30 includes a high-efficiency, drop-in style HEPA filter that is individually certified to have a minimum efficiency of 99.97% at .3 microns (based on 1EST-RP-CC007 particle count test method). The model 30 would not be complete, without its; 10' x 1.5" crushproof hose and round dusting brush. And a 50-foot power cord allows maximum range without relocating the plug to another power source. Consider the model 30ASB for your portable vacuum needs.

Dry Tool Kit: (B160423) ¥10 x 1,5 crushproof hose (B000311) ¥ Round dusting brush (B000394)

