

# Production Insight Solutions for Critical Environments & Manufacturing Processes

PROTECTIVE APPAREL

CHEMICALS

PRODUCTION SUPPLIES

Page 8 Ten Tips for Protecting Lab Workers against Slip and Fall Injuries
Page 18 VWR Production Value Add Service

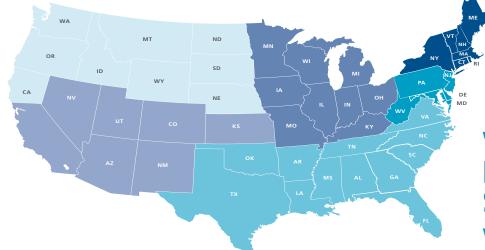
## **VWR's Production Portfolio**

Continually expanding to support your Research and Production needs. To learn more, contact us today! vwr.com | 800.932.5000









The VWR Controlled Environment Specialist Team is regionally located across the U.S. to support our customers nationwide. Each highly trained Specialist has technical and industry experience, including training on ISO and IEST protocols, and as members of IEST and PDA, our Specialists stay current on industry trends and codes. Collectively the team has over 75 years of experience in controlled environments. Our Controlled Environment Specialist Team also has deep product

VWR Controlled Environment Specialist Team

We offer FREE consultative services to support your specific requirements

and supplier knowledge to effectively recommend the best solutions to meet your needs. They are available at no charge to consult with you and offer cost and process improvement solutions tailored to your specific requirements.



# Cleanroom Boot, ESD Grid, White Knight

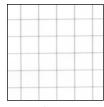
Equipped with a unique anti-slip tread pattern that offers 30% more traction and a high sidewall, these reusable molded-sole cleanroom boots provide superior performance in both wet and dry environments. They are gamma sterilization stable and made with 1% carbon grid fabric for excellent electrostatic dissipation (ESD). Suitable applications include micro-electronics, semi-conductor manufacturing, and nano research.

- Feature a gray molded sole and 18" fabric uppers with tunneled elastic at ankle and top
- Three male snaps and one female snap at top for size adjustment, plus one reinforced snap on the back of the boot for coverall leg attachment
- For added durability in toe and heel areas, a reinforced fabric band is sewn around the perimeter of the sidewall
- Buckle includes color-coded webbing for easy size identification
- All seams are laser-cut or pre-serged
- Thread is silicon-free
- Color: white (also available in navy)

Size	Cat. No.	Pack of 2
Small	89495-941	57.83
Medium	89495-943	57.83
Large	89495-945	57.83
X-Large	89495-947	57.83
XX-Large	89495-949	63.63

Please see vwr.com for a complete list of sizes and styles.





ESD Grid

# Cleanroom Coverall, ESD Stripe, White Knight

Reusable cleanroom coveralls are made with a high-density polyester calendered fabric that resists fluids and bacterial penetration. Designed for cleanroom applications up to and including ISO Class 4, the garments also include a 1% carbon stripe for electrostatic dissipation. Applications include pharmaceutical, bio-tech, and medical device manufacturing.

- Include knit cuffs with 5% carbon Belltron fiber, a full-length, lintlimiting front zipper with two top snaps at neck, and a mandarin collar
- The bottom of the legs include three male snaps and one female snap for adjustment, plus three male snaps on the back of the leg for boot attachment
- · All seams are laser-cut or pre-serged
- Thread is silicon-free
- Color: white

Size	Chest Size, in.	Cat. No.	Each
Small	34-36	89495-772	74.79
Medium	38-40	89495-774	74.79
Large	42-44	89495-776	74.79
X-Large	46-48	89495-778	74.79
XX-Large	50-52	89495-780	82.26
3X-Large	54-56	89495-782	90.48
4X-Large	58-60	89495-784	99.54
5X-Large	62-64	89495-786	109.49
6X-Large	66-68	89495-788	120.44

Please see vwr.com for a complete list of sizes and styles.





ESD Stripe







#### Controlled Environment Frock, ESD Grid, White Knight

Reusable zippered frocks are designed for controlled environments and less critical cleanroom applications. Made with durable ESD Grid Fabric, they are engineered for electrostatic dissipation with a 1% carbon grid, and also feature knit cuffs with 5% carbon Belltron fiber. Applications include micro-electronics and semi-conductor manufacturing.

- Garments have a mandarin collar with two snaps at top, a wide-pull zipper, and a single snap below at bottom
- Assembled with double-needle felled seams for added durability and particle migration prevention
- · All seams are laser-cut or pre-serged
- Thread is silicon-free
- Color: White (also available in navy)

Size	Chest Size, in.	Cat. No.	Each
Small	34-36	89495-836	70.39
Medium	38-40	89495-838	70.39
Large	42-44	89495-840	70.39
X-Large	46-48	89495-842	70.39
XX-Large	50-52	89495-844	77.43
3X-Large	54-56	89495-846	85.16
4X-Large	58-60	89495-848	93.70
5X-Large	62-64	89495-850	103.04
6X-Large	66-68	89495-852	113.33

Please see vwr.com for a complete list of sizes and styles.



#### VWR® Glove Liners

Ergonomically designed glove liners are made from 15 denier, low-lint nylon knit fabric. Liners provide protection and comfort when used with latex, nitrile, and PVC gloves. Fully launderable for reusability and economy.

- Ambidextrous glove liners
- Reduces perspiration and wicks away moisture
- Sturdy, launderable, and reusable
- · Color-coded cuffs indicate size
- Pre-laundered: will not shrink

Size	Cat. No.	Pack of	Case of
Half-Finger Liners			
Small	94000-616	20/ 35.81	300/ <b>352.02</b>
Medium	94000-618	20/ 35.81	300/ <b>352.02</b>
Large	94000-620	20/ 35.81	300/ <b>352.02</b>
X-Large	94000-622	20/ 35.81	300/ <b>352.02</b>
Full-Finger Liners			
Small	94000-608	20/ 33.95	300/ <b>333.77</b>
Medium	94000-610	20/ 33.95	300/ 333.77
Large	94000-612	20/ 33.95	300/ 333.77
X-Large	94000-614	20/ 33.95	300/ 333.77



#### **VWR® Sterile Disposable Goggles**

- Fog-free Exxene®-coated lenses are manufactured of 100% polycarbonate in a cleanroom and meet ANSI Z87.1 standards
- Lightweight goggles are durable enough to withstand temperatures up to
- 100°C (212°F)
- Individually bagged in a sealed Tyvek® pouch

Safety and comfort combined with an exceptionally high sterility level make these goggles the optimum choice for critical environments and other applications. Indirect venting goggles feature a black adjustable headband. Goggles are supplied with a certificate of sterility, ensuring that residuals are close to undetectable levels over an eight-hour exposure period.

Description	Cat. No.	Case of 50
Indirect Venting Goggles	69100-210	596.13



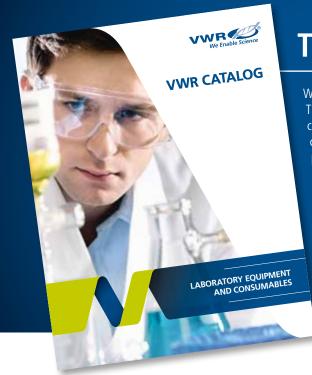
HOW DO YOU SELECT PROTECTIVE CLOTHING OR CLEANROOM GARMENTS?

SEARCH WITH THE NEW POWERFUL TOOL FROM DUPONT.



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# The NEW VWR Catalog

We are excited to announce the launch of The VWR Catalog! The interactive flip catalog is your source for the best-in-class brands across consumables, chemicals, equipment, and instruments. Featuring over 11,000 product choices in over 300 product categories, the VWR Catalog is sure to have the right products for your needs.

This interactive flip catalog gives you the flexibility to view from anywhere and on-the-go.

#### **Features Include:**

- Zoom in on product descriptions and images
- Search for the items you want
- Add personal "sticky notes" throughout the book
- Link back to vwr.com for easy ordering through the hyperlinked VWR catalog number

Visit vwr.com/catalogs today!



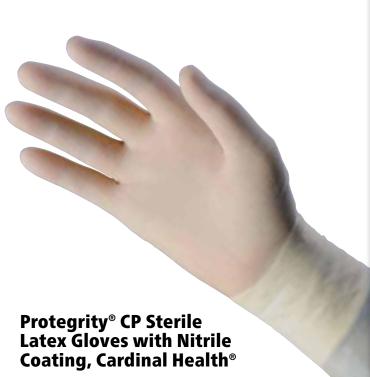
#### VWR® Collection Unisex Technology Lab Coat, Reusable

Unisex Technology lab coats are designed for use in research environments and feature knit cuffs, oversized pockets, and a headphone port in the pocket.

- Durable and comfortable 80/20 poly/cotton blend fabric for long-term wear
- These industrial launderable garments feature a quickrelease five-snap front, one breast pocket with a pencil slot, and two oversized hip pockets (large enough for a mini-tablet)
- Side vents for easy pants pocket access
- Overall length: 99cm (39")
- · Available in white only
- Plain front, with no embroidery

Size	Chest Size, in.	Cat. No.	Each	Case of 25
XX-Small	26-28	10141-370	24.33	608.38
X-Small	30-32	10141-372	24.33	608.38
Small	34-36	10141-374	24.33	608.38
Medium	38-40	10141-342	24.33	608.38
Large	42-44	10141-344	24.33	608.38
X-Large	46-48	10141-346	24.33	608.38
XX-Large	50-52	10141-348	26.75	668.79
3X-Large	54-56	10141-350	29.39	_





- Made from natural rubber latex
- Contains 50mg or less of total extractable protein per square decimeter
- 30.4cm (12") length ensures optimal hand and wrist coverage

Triple-layer, powder-free, clean process gloves feature a unique bonding technology that integrates the comfort of natural rubber latex with the strength of nitrile for an exceptional grip, outstanding tactile properties, and enhanced comfort. The natural rubber latex outer layer provides elasticity and tensile strength. The synthetic nitrile inner layer, closest to the skin, enables effortless donning as well as durability. The middle layer is a blend of natural rubber and synthetic nitrile formulated to bond the inner and outer layers. Hand-specific. Beaded cuff. Bisque finish. Sterilized by gamma irradiation to a Sterility Assurance Level (SAL) of 10-6.

CE marked.

Size	Cat. No.	Case of 200
51/2	PH2Y72N0	718.09
6	PH2Y72N1	718.09
61/2	PH2Y72N2	789.90
7	PH2Y72N3	789.90
71/2	PH2Y72N4	789.90
8	PH2Y72N5	789.90
81/2	PH2Y72N6	789.90
9	PH2Y72N7	789.90



The VWR Collection

The choice that delivers the right products at the right price when you need them







The VWR Collection, an exclusive line of products for production and critical environments, delivers the quality and value you've come to trust from VWR. The Collection includes apparel, chemicals, consumables, supplies, furniture, and more. There's a VWR Collection product for your need...and your budget.

Learn more by contacting your VWR Sales Representative, visiting vwr.com, or calling 800.932.5000 for more information today!



**Protective Apparel** 











# Ten Tips for Protecting Lab Workers Against Slip and Fall Injuries

What You Need to Know

By: Damon Larkin, Category Manager, Scientific Apparel, Kimberly-Clark Professional

Laboratory workers are exposed to many potential hazards, including wet floors, spills and clutter, which can lead to slips, trips, falls and other injuries.

Slips can occur when there is too little traction or friction between a shoe or shoe cover and the walking surface. Trips can occur when someone's foot contacts an object in his or her way or drops to a lower level unexpectedly, causing him or her to be thrown off-balance. A trip most often results in a person falling forward, while a slip generally results in a backward fall. A fall occurs when someone is too far off-balance<sup>1</sup>. Whatever the cause, the resulting injuries can affect the health, safety and productivity of workers as well as a company's bottom line.

The Occupational Safety and Health Act of 1970 (OSH Act) requires employers "to do whatever is necessary to protect lab and other workers from harm." The Occupational Safety and Health Administration (OSHA) also requires that employers implement appropriate protective measures to assure the safety of workers, including minimizing slip, trip and fall hazards. It offers guidance via standard 29 CFR 1910

Here are some tips to help reduce the risk of slip, trip and fall injuries in laboratory settings.



- Keep floors clean and dry. In addition to being a slip hazard, continually wet surfaces promote the growth of mold, fungi and bacteria, which can cause infections.
- 2. Provide warning (caution) signs for wet floor areas.
- Where wet processes are used, maintain drainage. Also provide false floors, platforms, mats or other dry standing places where practical, or supply appropriate waterproof foot gear.
- Choose footwear and shoe covers that offer the best possible traction on slippery surfaces. Look for shoe covers with extra grip and a range of sizes for a custom fit.
- Keep aisles and passageways clear and in good repair. Make sure there are no obstructions across or in aisles.
- Provide floor plugs for equipment. This way, power cords won't run across pathways.
- 7. Report and clean up spills immediately.
- 8. Eliminate cluttered or obstructed work areas.
- 9. Promote safe work practices, even in cramped spaces.
- 10. Eliminate uneven floor surfaces.

Make sure to take the necessary precautions to protect lab workers. It's not only the right thing to do, it's the law.

<sup>1</sup>Source: University of Wisconsin-Milwaukee, Safety & Health, Accident Prevention: Slips, Trips and Falls

# Don't Take The Fall

Stand Firm with KIMTECH PURE\*
A8 UNITRAX\* Shoe Covers



Create a safer enviroment with KIMTECH PURE\*
A8 UNITRAX\* Shoe Covers.

# Self-defense for the cleanroom.

The KIMTECH PURE\* A8 UNITRAX\*
Shoe Cover does more to protect
workers involved in critical process
manufacturing and quality control.

Visit **kimtech.com** to see <u>A8 UNITRAX\*</u> in action.

4X MORE GRIP

- Superior non-skid design
- Seamless bottom for better comfort
- 3 sizes for a custom fit
- · Low lint for contamination control
- Recyclable through the RIGHTCYCLE\* Program

#### KIMTECH PURE\* A8 UNITRAX\* Shoe Covers

Color	Thread Color	Size	Case Count	Cat. No.	Each
White	Blue	SM/MD	300 ea.	89428-642	116.22
White	White	Universal	300 ea.	89428-606	133.07
White	Black	XL/2XL	300 ea.	89428-608	137.43



**Exceptional** Workplaces

KIMTECH PURE\* BRAND

1. Versus leading alternatives. Data on file at company.





#### **BIOPROCESS CHEMICALS. MORE PRODUCT SOLUTIONS.**

**VWR BIOPROCESSING** manufactures commercial-scale biological buffers and biochemicals.

## Our Product Offering Includes:

- Amino Acids/Derivatives:
   L-Asparagine, L-Glutamine
- Biological Buffers: BIS-TRIS, HEPES, HEPES Sodium Salt, MES, MES Sodium Salt, MOPS, TRIS Amino, and TRIS Hydrochloride
- Store at 15° 30° C







				Molecular	_	
Description	EC No.	CAS No.	Formula	Weight	Size	Cat. No.
Amino Acid Derivatives	EC NO.	CAS No.	Torritara	Weight	3120	cat. No.
Asparagine, Anhydrous	200-735-9	70-47-3	C4H8N2O3	132.12	1KG	VWRB15005-1KG
Asparagine, Anhydrous	200-735-9	70-47-3	C4H8N2O3	132.12	5KG	VWRB15005-5KG
Asparagine, Anhydrous	200-735-9	70-47-3	C4H8N2O3	132.12	25KG	VWRB15005-25KG
L-Cystine Dihydrochloride	250-391-9	30925-07-6	C6H12N2O4S22HCl	313.23	1KG	VWRB21502-1KG
L-Cystine Dihydrochloride	250-391-9	30925-07-6	C6H12N2O4S22HCl	313.23	5KG	VWRB21502-1KG
L-Cystine Dihydrochloride	250-391-9	30925-07-6	C6H12N2O4S22HCl	313.23	25KG	VWRB21502-25KG
Hypoxanthine Disodium Salt	203-024-1	102-32-9	C5H2N4O•2Na	180.11	1KG	VWRB31608-1KG
Hypoxanthine Disodium Salt	203-024-1	102-32-9	C5H2N4O•2Na	180.11	5KG	VWRB31608-5KG
Hypoxanthine Disodium Salt	203-024-1	102-32-9	C5H2N4O•2Na	180.11	25KG	VWRB31608-25KG
Hypoxanthine Sodium Salt	_	45738-97-4	C5H3N4O•Na	158.11	1KG	VWRB31752-1KG
Hypoxanthine Sodium Salt	_	45738-97-4	C5H3N4O•Na	158.11	5KG	VWRB31752-5KG
Hypoxanthine Sodium Salt	_	45738-97-4	C5H3N4O•Na	158.11	25KG	VWRB31752-25KG
L-Lysine. Anhydrous	200-294-2	56-87-1	C6H14N2O <sub>2</sub>	146.19	1KG	VWRB42307-1KG
L-Lysine. Anhydrous	200-294-2	56-87-1	C6H14N2O <sub>2</sub>	146.19	5KG	VWRB42307-5KG
L-Lysine. Anhydrous	200-294-2	56-87-1	C6H14N2O <sub>2</sub>	146.19	25KG	VWRB42307-25KG
L-Tyrosine Disodium Dihydrate	_	122666-87-9	C9H9NO3Na2•2H <sub>2</sub> O	261.19	1KG	VWRB87058-1KG
L-Tyrosine Disodium Dihydrate	_	122666-87-9	C9H9NO3Na2•2H2O	261.19	5KG	VWRB87058-5KG
L-Tyrosine Disodium Dihydrate	_	122666-87-9	C9H9NO3Na2•2H2O	261.19	25KG	VWRB87058-25KG
Biological Buffers		122000-07-9	C311314O314d2 = 2112O	201.13	ZJKU	V VV NDO7 030-23 NG
HEPES Free Acid	230-907-9	7365-45-9	C8H18N2O4S	238.3	1KG	VWRB30487-1KG
HEPES Free Acid	230-907-9	7365-45-9	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S	238.3	5KG	VWRB30487-1KG
HEPES Free Acid	230-907-9	7365-45-9	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S	238.3	25KG	VWRB30487-25KG
HEPES Sodium Salt	278-169-7	75277-39-3	$C_8H_{17}N_2O_4SNa$	260.3	1KG	VWRB30567-1KG
HEPES Sodium Salt	278-169-7	75277-39-3	$C_8H_{17}N_2O_4SNa$	260.3	5KG	VWRB30567-5KG
HEPES Sodium Salt	278-169-7	75277-39-3	C <sub>8</sub> H <sub>17</sub> N <sub>2</sub> O <sub>4</sub> SNa	260.3	25KG	VWRB30567-25KG
PIPES Free Acid	227-057-6	5625-37-6	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>6</sub> S <sub>2</sub>	302.37	1KG	VWRB73007-25KG
PIPES Free Acid	227-037-6	5625-37-6	C8H18N2O6S2	302.37	5KG	VWRB73007-1KG
PIPES Free Acid	227-037-6	5625-37-6	C8H18N2O6S2	302.37	25KG	VWRB73007-3KG
PIPES Sequisodium Salt	227-037-0	100037-69-2	C16H33N4O12S4•3Na	670.69	1KG	VWRB73007-23KG
PIPES Sequisodium Salt	_	100037-09-2	C <sub>16</sub> H <sub>33</sub> N <sub>4</sub> O <sub>12</sub> S <sub>4</sub> •3Na	670.69	5KG	VWRB73257-1KG
PIPES Sequisodium Salt	_	100037-09-2	C <sub>16</sub> H <sub>33</sub> N <sub>4</sub> O <sub>12</sub> S <sub>4</sub> •3Na	670.69	25KG	VWRB73257-25KG
PIPES Disodium Salt	770 567 2					
PIPES Disodium Salt	278-562-3 278-562-3	76836-02-7 76836-02-7	C8H16N2O6S2Na2 C8H16N2O6S2Na2	346.33 346.33	1KG 5KG	VWRB73305-1KG VWRB73305-5KG
PIPES Disodium Salt	278-562-3	76836-02-7		346.33	25KG	
			C <sub>8</sub> H <sub>16</sub> N <sub>2</sub> O <sub>6</sub> S <sub>2</sub> Na <sub>2</sub>			VWRB73305-25KG
TRIS Hydrochloride	214-684-5	1185-53-1	C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub> HCl	157.6	1KG	VWRB85827-1KG
TRIS Hydrochloride	214-684-5	1185-53-1	C4H11NO3HCl	157.6	5KG	VWRB85827-5KG
TRIS Hydrochloride	214-684-5	1185-53-1	C4H11NO3HCl	157.6	25KG	VWRB85827-25KG

Visit **vwr.com** or contact your Sales Representative for pricing and additional product information.

# VWR Custom Manufacturing Services

# From Bench to Production







VWR enables the advancement of science by providing high-quality chemicals and services, customized to unique product or manufacturing needs. We use operational excellence to deliver solutions that enable research, testing, and production across the globe.

#### **OUR CORE CAPABILITIES INCLUDE:**

- Custom Liquid Manufacturing
- · Custom Liquid Dosing and Packaging
- Custom Powder Manufacturing
- Powder Dosing and Packaging
- · Assembly and Finishing

VWR is committed to providing the highest manufacturing value for our customers. Primary attributes that define our approach include:

- Flexibility
- Supply Chain Security
- Quality
- Operational Excellence
- Resource Optimization
- Breadth of Capabilities

Focus on your core business, and let VWR take care of sourcing, production, testing, and documentation of your chemicals.

For more information, call 1.800.932.5000.





#### Global Manufacturing Sites. State-of-the-Art Facilities.

Seven VWR manufacturing sites provide a global footprint to accommodate life science applications in biotechnology, biopharmaceutical, diagnostics, and research, encompassing research and development to full-scale production.

### **VWR Production Chemicals**

**Complexity Simplified** 



**SECURITY** 

#### ${\color{red}\mathsf{MINIMIZE}}\ complexity - {\color{red}\overline{\mathsf{MAXIMIZE}}}\ supply$ chain security

- · Quality and Change Notice Verification (CNV) processes supported by a VWR Quality Assurance team
- · Proactive audit program of new and existing suppliers
- · Supply chain integrity through secured building access
- Regulatory compliance enabled with necessary certificates and documentation



#### INCREASE productivity — FOCUS on process development and manufacturing

- **VWR**CATALYST<sup>™</sup> services help you move faster and focus on production
- VWR Custom Manufacturing Services enable the advancement of science by providing high-quality chemicals and services, customized to unique product or manufacturing needs.
- Collaborative planning, forecasting, and replenishment (CPFR) process to manage the uncertainty and variability in today's dynamic supply chain
- Innovative technology solutions that support supplier connectivity and procurement solutions







#### SIMPLIFY procurement — STRENGTHEN strategic sourcing

- · Strategic sourcing with product choice that offers you primary and secondary product offerings
- Available inventory supported by sophisticated demand planning tools to respond to and support critical material requirements
- · VWR-generated supplier scorecards to monitor and improve our supply partners' supply chain and quality performance

#### **SUPPORT**

#### LEVERAGE global reach — GAIN local support

- Primary and secondary locations available worldwide
- Technical product support to help match your requirements with leading manufacturers
- · Dedicated critical materials care experts proactively manage all aspects of critical materials fulfillment

Shop vwr.com for additional information on VWR Production Chemicals or contact your local VWR Sales Representative.

# Decon Labs' Aqua Purified Water

## Water, water everywhere...but does it really meet USP spec?

Not all water is created equal! It's easy to make water that meets USP spec today! But, what about after it sits on a shelf for 2 weeks, 2 months or 12 months? Our testing of major brands of packaged purified water

show a high amount of microbial growth which can affect TOC and other parameters. Decon's proprietary manufacturing process ensures that our AquaPur Purified Water meets spec when you use it.

# Aqua**Pūr**Purified Water

- · Meets USP/EP Specs
- Made in FDA-registered / cGMP facility
- Validated system incorporating deionization, UV and ultrafiltration
- Maintains microbial spec through expiration date

# Aqua**PurST**Sterile Purified Water

- Meets USP Specs
- · Double-bagged, gamma-irradiated
- Meets USP WFI spec for sterility and endotoxin
- For applications in lab or production environments that require sterile purified water
- Lot Specific Document detailing testing shipped with each case

Size	Description	Cat. No.	Price
4 x 1 G	AquaPur	71003-548	107.29
5 <b>G</b>	AquaPur	71003-550	141.29
55 <b>G</b>	AquaPur	71003-552	637.16
4 x 1 G	AquaPur ST	71003-690	207.20



#### **EMPROVE®**

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With a portfolio of 400 EMPROVE® products, EMD Millipore's experience and broad expertise in the chemical and pharmaceutical industry safeguard your future success by:

- Meeting regulatory challenges
- Supplying comprehensive, ready-to-use documentation
- Providing high-quality raw materials
- Offering a thorough material qualification trail





#### **Anti-Shock Shear Cutters, Excelta**

Designed to cut through-hole leads to a designated length. During the cut, no shock is sent thru the component. In addition, the lead end is square for better solderability.

- Five star quality cutter
- Material: Carbon Steel
- Shear cut type
- · Shear standoff blade

Overall Length, in.	Cutting Capacity, in. (max)	Tip Size, in.	Cat. No.	Price
5	.025	.050	63042-542	159.46
5	.025	.140	63042-546	155.41
5	.060	_	63042-526	265.25
5.5	.020	.100	63042-538	198.65
5.5	.040	.100	94024-392	182.79
5.5	.040	.875	63042-498	328.37
6	.025	.090	63042-540	187.73
6.5	.040	.100	94024-394	195.96

Shop **vwr.com** for additional sizes and varieties.







#### Sterile PeridoxRTU® Sporicidal Disinfectant and Cleaner

Sterile PeridoxRTU is a ready-to-use, broad spectrum EPA-registered sporicide, bactericide, virucide, tuberculocide and fungicide disinfectant and cleaner which contains no alcohol or bleach. Sterile PeridoxRTU is a

proprietary chemistry which combines hydrogen peroxide and peracetic acid with proprietary ingredients to dramatically out-perform similar chemistries on the market. Sterile PeridoxRTU is ideal for pharmaceutical and life science cleanroom environments, including sterile core areas. It has a 3-minute sporicidal claim, a 2-minute virucidal and bactericidal claim, and a 1-minute fungicide claim with a chemistry that leaves minimal residue on surfaces.

Sterile PeridoxRTU is validated sterile to a 10<sup>-6</sup> Sterility Assurance Level (SAL). Sterile PeridoxRTU provides maximum effectiveness without the risks of bleach. Unlike bleach, PeridoxRTU will not cause damage to stainless steel or clothing, and is compatible with most surfaces.

Description	Cat. No.	Case of 6
Sterile PeridoxRTU Sporicidal Disinfectant	10148-324	362.03
and Cleaner 32 oz Bottle		

#### **EasyCurve™ Mop with Microfiber**

Contec's EasyCurve™ Mop was designed specifically for critical and controlled environments, now available with a ribbed microfiber face giving users smooth and easy mopping for better particle pick up and contamination removal. The combination of the curved mop face and the pivoting mop frame results in effortless surface contact and outstanding maneuverability, making the EasyCurve an ideal cleaning tool for ceilings, walls and floors. Fully autoclavable and available in nonsterile and validated sterile versions.

The EasyCurve mop uses a separate "sling" style wringer that installs over an autoclavable bucket to completely and easily remove liquid from the mop head. Since the wringer is not on the handle like traditional sponge roller mops, weight and resulting operator fatigue are significantly reduced.

Description	Cat. No.	Price
EasyCurve Mop with Microfiber	10153-828	Cs. 48/ <b>478.77</b>
EasyCurve Mop with Microfiber, Sterile	10153-826	Cs. 48/ <b>748.59</b>
Stainless Steel Pivoting Mop Head Frame	89073-976	Ea./ <b>95.95</b>
QuickConnect handle, 50", extends to 92", anodized aluminum	33502-715	Ea./ 111.15



# **Stay Safe & Productive,** In the Lab and Everywhere Else

The complete VWR lab safety portfolio helps you protect workers, your facility, and the investment you've made in both. And because supporting science takes place in and outside of the lab, we now offer an expanded portfolio of Safety & Industrial Supplies.

To find products in our expanded portfolio, just search one of the terms listed below, or visit us.vwr.com/safetyandindustrial and begin browsing today.

#### **SAFETY SUPPLIES**

- Apparel
- Chemical Handling & Storage
- Ergonomics
- Eye & Face Protection
- Fall Protection
- First Aid
- Handcare
- · Hand Protection
- · Hearing Protection
- Respiratory Protection
- Safety Signs
- Spill Control
- · Waste Disposal

#### **INDUSTRIAL SUPPLIES**

- Abrasives
- Adhesives, Sealants & Tapes
- Batteries
- Chemicals, Lubricants & Paints
- · Electrical and Lighting
- Fasteners, Clamps & Straps
- Food Service Supplies
- Hand Tools
- HVAC Supplies
- Janitorial Equipment & Supplies
- Marking Tools
- Material Handling & Storage
- Measuring & Leveling Tools
- Office Supplies
- Pneumatic Tools
- · Power Tools



Request your FREE catalog today at vwr.com/ safetyandindustrial

# The Looper Looped-End Wet Mop, Wide Band, Freudenberg

- Heavy-duty poly coated headband mesh withstands harsh chemicals and abuse when used a scrubber
- Made from a unique blend of yarn that enables superior absorbency while withstanding repeated laundering and eliminating linting; No cotton used
- Looped-end construction and fan-tail design allows for maximum floor coverage while eliminating linting, tangling, and fraying
- Professional janitor wood mop stick features a clamp that opens for easy installation
- · Twist action secures mop head
- For use with all size mop heads
- Strong, lightweight Snap-N-Go™ telescopic handle is constructed of aluminum with an ergonomic center grip and anti-slip handle grip
- Changeable color coding clips



• 5" band





#### **Microfiber Sponges and Wipes, Micronova**

Sponges combine microfiber over a urethane foam interior. Holds up to strong disinfectants and steam sterilization.

- 80% polyester/20% polyamide split microfiber material
- Superior cleaning ability
- Over 400% absorbency
- Launderable and autoclavable
- Color: blue



Dimensions, in.	Cat. No.	Each	Case of
Microfiber Sponge			
3 x 6	89092-146	21.74	24/ <b>460.41</b>
4 x 6	89092-148	10.52	24/ <b>223.75</b>
Microfiber Wipe			
9 x 9	94023-898	5.29	100/ 472.64
12 x 12	94023-896	6.03	100/ 529.37

# Why Risk Your Company's Reputation?



 Patented plastic material allows scoop and scoop fragments as small as 1.6mm<sup>3</sup> to be detected with standard metal detection and X-ray equipment

• FDA grade – safe for food, drug and cosmetic contact

Sterilized by gamma irradiation; individually packaged;

 Interpretable

lot stamped

Capacity	Cat. No.	Pack of 100
Blue Scoops		
2 oz.	89233-982	182.79
4 oz.	89233-984	273.21
8 oz.	89233-986	462.45
Black Scoops		
2 oz.	89093-476	179.41
4 oz.	89093-480	274.55
8 oz.	89093-478	464.75





Sample set contains 1 each of 2oz, 4oz and 8oz sizes of Sense-able Scoops®

Visit vwr.com/promotions and enter the promo code 4206 in the "FIND" box for details



# Three Star™ Miniature Spatulas with Color-Coded Plastic Handles, EXCELTA®

- These straight, miniature spatulas are ideal for prercisely placing lubricants or epoxies in exact quantity into tight places
- Plastic handles with stainless steel ends
- Length 6.4 cm  $(2^{1}/_{2}")$

Color	Tip Size, mm (in.)	Cat. No.	Each
Black	0.25 (0.010)	63041-690	15.24
Blue	0.38 (0.015)	63041-692	18.34
Green	0.51 (0.020)	63041-694	18.34
Red	0.64 (0.025)	63041-696	18.34



#### **VWR®** Cuff Tape

This Cuff Tape is a conformable polyethylene tape used to ensure an effective seal between the glove and garment in cleanroom gowning. Perforations at 3" intervals allow the user to bind and tear at the optimum length to seal the glove. The low-outgassing polyethylene film with acrylic adhesive removes cleanly leaving no adhesive residue and will not tear gloves. Wound on a plastic core.



- Excellent chemical resistance
- No tear/clean peel from gloves
- Perforated every 3" for easy tear
- No residue on glass/plastic
- · Color: white
- No residue on garments
- Dimensions: 2" x 36 yards

Description	Cat. No.	Each	Case of 24
Cuff Tape	89495-444	41.99	1018.67
Cuff Tape, Irradiated	89495-446	45.23	1097.19



# **VWR Production** Value Add Service

VWR has been providing products and services for over 150 years. Now we are raising the bar again for services and partnering with key suppliers to offer differentiated services within the production environment.



#### **Introducing Contec's Product Application** Review (P.A.R.) Program

As part of Contec's continuing technical support to our customers, we have introduced the P.A.R. program. Our P.A.R. team consists of industry experts who focus on products and applications unique to your business. By observing your cleanroom operations, they can make recommendations as to product suitability and cost cutting opportunities.

There are two simple steps to a successful P.A.R.:

- 1. On-site walk-through, which includes a pre-P.A.R. review of your objectives and challenges within your environment/process/ products.
- 2. Formal written report
  - a. Contec will issue a formal report approximately two weeks following completion of each facility review. The report will contain the following:
    - i. Required performance characteristics for each process and environment
    - ii. Product recommendations
    - iii. Other observations

The average P.A.R. takes only 2 hours to complete – a small commitment with potentially significant results. Typical results include:



- Identification of cost savings opportunities
- Solutions to problems we identify
- Recommendations for improved cleaning operations

We look forward to providing you with this level of technical support. Please contact your local Contec area sales manager to schedule a Product application review for your facility.



#### Essentials for Critical Cleaning

#### Cleaning in Pharma or **Med Device Facilities**

- Do you have cleaning challenges in your facility?
- Are you looking for more efficient ways to clean?
- Are you following proper guidelines?

Micronova can help. Mary Taylor is available for facility tours, one on one training and for educational seminars. Mary has been performing training in the use of Micronova Cleaning Tools for 9 years, referencing IEST Recommended Practices RP-018 and standard industry practices, including effective use of the double bucket method. Prior to joining Micronova, Mary developed experience as a Quality Consultant and draws from her extensive industry experience in Biologics Manufacturing, Quality Control-management and testing, and Regulatory Affairs. This broad industry background is key to her informed understanding of the stringencies of cGMP both from a US and International standpoint.





Aseptic Processing, Inc. (API). API is the consulting and training division of Veltek Associates, Inc. The mission and key focus of the division is to lead the industry in specific contamination control and environmental monitoring systems. API focuses specifically in the areas of Cleaning and Disinfection Systems, Disinfectant Validation Services,

Component Entry Systems, Environmental Monitoring Systems, Aseptic Processing Systems, Media Fills, and Personnel Training Systems.

Specialized Consulting Services in the areas of:

- Environmental Monitoring Systems
- · Component Entry Systems
- Cleaning/Disinfection Systems
- Personnel Training
- Personnel Gowning Systems
- Media Fill Trials
- Aseptic Processing Systems



#### **Perfex TruCLEAN® Mopping Systems**

TruCLEAN Mopping Systems work to capture and isolate contaminants, ensuring the delivery of unadulterated cleaning and sanitizing agents. TruCLEAN Disinfection systems are designed for fast, easy application of sterilants to floors, walls and ceilings. TruCLEAN components are constructed with high-grade stainless steel, entirely autoclavable, easy to maintain and guaranteed to deliver reliable cleaning results time after time.

- Compatible with gamma, ETO and autoclave sterilization
- Reduce the risk of cross-contamination
- Multiple color combinations available

Color	Cat. No.	Each
TruCLEAN Triple Bucket Mop	ping System*	
Red	22940-012	1903.75
White	22940-015	1848.21
Blue	22940-014	1903.75
TruCLEAN II		
Red	89095-990	552.23
Blue	89095-992	552.23

<sup>\*</sup>Also available in green and yellow

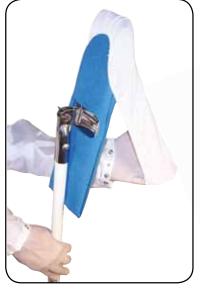
#### **TruCLEAN® Mops and Accessories**

Designed for cleanrooms or sterile environments where contamination control is extremely critical. Low profile, stainless steel mop frame compatible with all TruCLEAN mops. Easily change mop heads with our quick squeeze release and frame-locking mechanism. Choose between our polymer adjustable handle and fixed length stainless steel handle. All TruCLEAN mops can be repeatedly laundered providing exceptional value.

- Excellent chemical and microbial resistance
- Low particle generation, excellent surface coherence
- Ideal for disinfection and sterilization procedures

Description	Cat. No.	Case of
TruCLEAN Clean Room Mop	89096-038	12/ <b>255.84</b>
TruCLEAN Microfiber Mop	89096-040	12/ <b>170.28</b>
TruCLEAN Anti-Microbial Mop	89096-036	12/ <b>201.76</b>
TruCLEAN Sponge Mop	22940-023	25/ <b>464.82</b>
TruCLEAN Mop Cover	22940-191	25/ <b>202.43</b>







Production



#### VWR<sup>®</sup> Critical Print<sup>™</sup> Cleanroom Spiral Notebooks

- Feature semi-transparent, high-density polyethylene covers that withstand harsh chemical vapors
- Low-particulate, 104g/m<sup>2</sup> (28#) bond paper
- Each notebook contains 50 sheets
- Cover color: frostedSpiral location: side

Description	Cat. No.	Each	Pack of	Case of
216W x 281L mm (8½ x 11	")			
College Ruled Notebook	51280-882	31.69	_	10/ <b>229.82</b>
Blank Page Notebook	51280-824	_	10/ <b>166.54</b>	_
Engineering Grid Notebook	51280-883	31.69	_	10/ <b>229.82</b>
140W x 216L mm (51/2 x 81/2	·")			
College Ruled Notebook	51280-888	25.55	_	20/ 343.28
Engineering Grid Notebook	51280-887	23.86	_	20/ 333.33
76W x 127L mm (3 x 5")				
College Ruled Notebook	51280-916	21.33	_	40/ <b>569.82</b>





# **VWR® General-Purpose Cleanroom Tape, Vinyl**

- Ideal for use in cleanroom maintenance and support areas
- Excellent for color coding, sealing, aisle marking, and batching
- The matte finish can be written on with a cleanroom pen
- Wound on a plastic coreLength: 33m (36yds.)
- Width: 1.9 cm (¾")

Color	Cat. No.	Price
Light Green	22221-056	Case of 48/ <b>544.02</b>
Black	22221-058	Case of 48/ <b>544.02</b>
Red	22221-062	Case of 48/ <b>544.02</b>
Dark Blue	22221-064	Case of 48/ <b>542.69</b>
White	22221-050	Case of 48/ <b>544.02</b>
Yellow	22221-067	Each/ <b>11.16</b>

For additional colors and sizes, contact your VWR Sales Representative.



#### **VWR® Polyester Wipers**

• Durable wipers resist fiber release and abrasion under rigorous use, even when wiping rough surfaces

Made from 100% virgin-grade, continuous-filament polyester in a double-knit, no-run interlock pattern to provide maximum cleanliness and absorbency. Laser cut wipers with sealed edges limit particles and fibers to an absolute minimum, ensuring excellent performance in environments that demand low levels of contaminants. Designed for cleaning surfaces and controlling spills in ISO Class 3 (FED-STD-209E Class 1/M1.5) or less critical environments.

Packaging: 150/bag

Color: white

W x L, cm (in.)	Cat. No.	Pack of	Case of
22.9 x 22.9 (9 x 9)	414004-517	150/ <b>54.22</b>	1200/ <b>350.08</b>
30.5 x 30.5 (12 x 12)	414004-518	150/ <b>92.66</b>	900/ <b>522.98</b>











- Lightweight
- Comfortable
- · Allow single handed operation within minienvironments and workstations
- The easy-to-read, high resolution display is fully configurable, with on the spot process profiling to pinpoint particle events
- 0.3µm

The MET ONE HHPC 6+ is a full featured six-channel handheld particle counter designed for a wide range of tasks in high technology cleanroom manufacturing environments such as semiconductor or flat panel display manufacturing. The unique cradle provides convenient PC access to particle counting data via Ethernet or USB cable while ensuring that the HHPC 6+ is fully charged and ready for use at all times.

Cat. No. BK2089311-01

Shop **vwr.com** for additional varieties.





#### Wet/Dry HEPA Vacuum, Nilfisk-Advance America

Ideal for cleanroom environments, the VT-60CR vacuum features a specially designed system that prevents motor carbon dust from escaping through the exhaust system.

- Cleans up wet or dry surfaces, with no filter change needed
- Main filter consists of 105 porous polyethylene tubes that provide excellent resistance to water, mildew, rot, and corrosion
- Internal cotton microfilter and HEPA filter retain 99.97% of all ultrafine particles down to and including 0.3µm
- Initial foam impact filter for coarse, wet materials protects float valve from clogging
- Pliable inlet tube aids in releasing damp, caking debris
- Total filter area (including impact filter, filter finger tubes, microfilter, and HEPA or ULPA cartridge) is 14,290cm<sup>2</sup> (2215 in.<sup>2</sup>)
- · Motor is grounded

Description	Cat. No.	Each
VT-60CR Cleanroom Vacuum	21925-028	6329.43



#### **VWR® PureStep Adhesive Mats**

Multi-layered contamination control mats remove and contain dirt and dust from foot traffic and equipment wheels.

- Mats consist of 30 or 60 sheets of 1.5mil low-density polyethylene film
- Each sheet has a 0.3mil thick acrylic-based, pressure-sensitive adhesive coating
- Numbered tabs ensure one-at-a-time sheet removal
- Antimicrobial agent protects against growth of bacteria, mold, and fungus
- Mats can easily be removed during routine floor maintenance
- Some sizes are available with high-tack adhesives

#### 30-Layer High-Tack Mats

Jo Layer mgm rack ma	••	
L x W, cm (in.)	Cat. No.	Case of
Blue		
91.4 x 61 (36 x 24)	82031-676	8/ <b>224.18</b>
114.3 x 45.7 (45 x 18)	87004-296	8/ 243.62
114.3 x 66 (45 x 26)	82028-392	8/ <b>290.52</b>
114.3 x 91.4 (45 x 36)	82029-678	8/ <b>361.57</b>
152.4 x 91.4 (60 x 36)	89066-232	4/ 365.92
White		
152.4 x 91.4 (60 x 36)	89089-166	4/ 364.20

#### 60-Layer High-Tack Mats

, ,		
L x W, cm (in.)	Cat. No.	Case of
Blue		
114.3 x 66 (45 x 26)	82028-394	4/ 275.30
White		
114.3 x 63.5 (45 x 25)	82031-466	4/ 287.39
114.3 x 66 (45 x 26)	87004-298	4/ 296.82
114.3 x 91.4 (45 x 36)	87004-300	4/ 428.78

For a full line of adhesive mats, shop **vwr.com**.



#### ScrubKITS™, Corrosion Cleaning Kits, Foamtec International

High precision remediation kits ease cleaning of corroded, rusted, or rouged 316 or 304 Stainless Steel.

- Compatible for use in ISO Class 5 Cleanrooms, and allow for remediation using DI or WIFI water in place of harsh chemicals, enabling the process to be done outside of shutdowns
- Contain aggressive, medium, fine and super fine ScrubPADS, UltraSOLV® Sponges and MiraWIPE® wipers which enable operators to return rusted 304 & 316 stainless steel to a like-new condition using a fast process
- Starter kits include cleaning and polishing step-by-step instructions and training video for the removal of corrosion and preventing re-rusting. Refill kits provide larger quantities of ScrubPADS, UltraSOLV® Sponges and MiraWIPES® only.

Description	Cat. No.	Price
ScrubDISK® Refill Corrosion Cleaning Kit	89176-720	Cs. 50/ <b>1749.31</b>
ScrubPAD Refill Corrosion Cleaning Kit	89176-718	Cs. 50/ <b>1547.84</b>
Stainless Steel Corrosion Cleaning Starter Kit	89200-068	Ea./ <b>719.68</b>





#### Micronova® M-Zone™ SnapMop Series

• Designed for controlled environments, pharmaceutical production and hospital pharmacies

- Quality features of covered foam combined with ergonomic design
- Low profile design
- Angled head for easy application of disinfectant or detergent
- Variety of sizes (9", 14", 18")
- Available in polyester, microfiber, MegaTex™ and PolySorb™ materials
- Launderable/autoclavable
- Available irradiated

A flat head mop that fits either a plastic or electropolished stainless steel frame, the M-Zone SnapMop features a swivel joint to allow easy coverage of floors, walls and awkward corners.

The option of using a plastic frame with fiberglass handle offers an economical hardware solution for small labs, startups and support areas and the light weight addresses ergonomic concerns.

The SnapMop covers feature a thin urethane foam interior completely encased in polyester – no exposed foam. This combination translates to less bulk and faster drying.

The original SnapMop is available in 100% Polyester or with the addition of 'cleaning bands'.

- Microfiber for additional cleaning power and increased absorbency.
- MegaTex for cleaning rough/textured surfaces or removing heavy deposits.

PolySorb covers offer the qualities of 100% polyester with additional absorbency through the unique waffle weave pattern of the fabric. PolySorb covers are available with and without foam interiors.

All SnapMops can be laundered, re-used and will hold up to alcohol, strong disinfectants and steam sterilization.

Description	Cat. No.	Case of
Plastic Adapter (14")	89140-694	1/ 70.20
Stainless Adapter (14")	11310-598	1/ 233.75
Stainless Extendible Handle (38-72")	68400-164	1/ 177.18
Polyester SnapMop (14")	89131-858	24/ <b>379.43</b>
Polyester SnapMop Sterile (14")	89131-864	24/ 511.89
Microfiber SnapMop (14")	89107-748	24/ <b>402.39</b>
MegaTex SnapMop (14")	89134-778	24/ <b>365.81</b>
PolySorb SnapMop (14")	89236-640	24/ <b>396.44</b>
Slim-T™ Double Bucket Cart	68400-670	1/ 998.22
Slim-T™ Wringer	68400-672	1/ 229.70
Plastic Coated Fiberglass Handle With Acme Threaded End (60")	89428-632	1/ 31.77









# **ProductionInsight**

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## VWR® GARMENT RECYCLING SOLUTION

#### Gown Up, Give Back

- · Comprehensive recycling solution to reduce landfill waste
- Drives sustainable business practices
- A portion of sales is donated to the VWR Foundation

This easy-to-use recycling program provides a complete waste collection, shipment, and recycling solution for used disposable apparel. All brands of disposable apparel are accepted as long as they are clean and do not contain any contaminants. The plastic waste is recycled into resin that is used to make permanent infrastructure including composite decking, railroad ties, and drainage pipes.

Disposable garments have been a significant waste stream to landfills and incinerators because they are made of a mixture of materials that makes them difficult to recycle. This program offers a convenient opportunity to recycle an abundant source of waste found in nearly every large pharmaceutical production facility, diverting typically hard-to-recycle products into new permanent infrastructure with lasting impact.

Each collection box holds up to 50 pounds of garments and is sold in packs of 12, which are returned as a full pallet load once filled. Each pallet will hold approximately 600 pounds of used garments. When the pallet is full, simply fill out the Bill of Lading copies (provided with the boxes) and call or email UPS for a pick up.

Description	Capacity	Cat. No.	Each
VWR Garment Recycling Collection Boxes	600 lbs. of garments	10127-400	245.00



