

CORE OVERLAP VEST AND SKIRT

CUSTOM LEAD APRON



ABOUT US



Phillips Safety is a recognized leader in radiation protection, designing and manufacturing high-quality radiation safety products and specialized PPE. Family-owned and operated for over 100 years, we are known for precision manufacturing, technical expertise, and an unwavering commitment to protecting professionals working in high-risk environments.

Our leadership in radiation safety began with protective eyewear and has expanded to a comprehensive portfolio of radiation apparel, barriers, shielding drapes, and custom solutions used in medical, industrial, research, and veterinary settings. Today, Phillips Safety products are trusted in fluoroscopy suites, cath labs, operating rooms, radiology departments, and interventional environments worldwide.

At the core of our radiation apparel is Axion Core™ technology—advanced lead-free and low-lead composite materials engineered to provide dependable radiation attenuation with reduced weight and improved comfort. Available in Axion Core 1000, 2000, and 3000, these core options are designed to balance protection, durability, and ergonomics to meet the needs of a wide range of users.

All Phillips Safety products are manufactured to meet applicable safety and regulatory standards, including Regulation (EU) 2016/425, and are tested in accordance with EN 61331 standards. Through vertical integration and in-house expertise, Phillips Safety continues to deliver reliable, innovative radiation protection solutions professionals can trust.

PHILLIPS SAFETY LEAD APRONS

CONTENT

01. Phillips Safety Lead Aprons

Learn about our core materials, Axion Core™ technology, QuickShip options, and more.

02. Lead Apron Style

Explore our apron style, sizing options, and measurement guidance.

03. Fabric Materials, Colors & Swatches

Discover available fabrics, colors, patterns, and customization options.



OUR LEAD APRONS

At Phillips Safety, our lead aprons are meticulously crafted in the USA with the wearer's comfort, protection, and style in mind, providing an ideal balance of weight and functionality.

Our aprons use top-quality barrier material that excels in both hygiene and comfort, making it the best choice on the market. This advanced barrier provides additional protection, as the inner and outer materials prevent pathogens, liquids, and solid particles from reaching the body.

While our QuickShip aprons ship within 24 hours, custom aprons are available and typically ship in 2-5 business days. Custom aprons can be tailored to your exact measurements and preferences, providing an ideal fit and optimal protection.

QuickShip Aprons and Garments

Phillips Safety offers a line of QuickShip aprons and garments. These products come in 0.5mm Pb Lead Equivalency in our Lightweight Lead and Axion Core™ 2000 cores. Standard colors in both Nylon and Ripstop fabrics allow for a shipping time within 24 hours.

PHILLIPS SAFETY LEAD APRONS

Axion Core Lead-Free Radiation Aprons and Garments

Phillips Safety introduces Axion Core™, our next-generation line of lead-free radiation aprons and garments.

By leveraging new advancements in manufacturing technology, Axion Core delivers the lightest weight core on the market today—without compromising shielding performance or safety. We have developed three distinct core options—Axion Core 1000, 2000, and 3000—each engineered with a unique blend of bismuth, antimony, and rare earth elements.

These innovative lead-free solutions vary in weight to meet different user needs but never sacrifice protection, giving medical professionals the perfect balance of comfort, durability, and performance while ensuring the highest safety standards in radiation shielding.

Axion Core™ 1000

The most economical lead-free core in our lineup, Axion Core 1000 is also the heaviest of our non-lead options. Designed for facilities prioritizing cost-efficiency without sacrificing safety, it offers reliable protection at a value price point. At roughly 5% lighter than traditional lightweight lead cores on the market, it delivers measurable weight reduction while maintaining full compliance with radiation shielding standards.

Axion Core™ 2000

Our most popular core, Axion Core 2000 delivers a significant weight reduction compared to both traditional lead aprons and the Axion Core 1000. Offering the ideal balance of performance and value, this core is price-effective while providing the comfort needed for those who wear aprons for extended periods of time.

Axion Core™ 3000

The lightest core in our lineup, Axion Core 3000 represents a true engineering achievement. At 15-20% lighter than Axion Core 2000, this is one of the lightest lead-free cores on the market today, if not the lightest. This material allows us to deliver the lightest apron available in the Phillips Safety line, giving medical professionals the most comfort during long procedures. For those seeking the perfect combination of lightweight design and long-term durability, Axion Core 3000 is simply unmatched.

Lightweight Lead

Our Lightweight Lead Core is a specially formulated material engineered to reduce weight compared to standard, traditional lead cores—making it easier and more comfortable to wear without sacrificing dependable protection. While it's not as light as our Axion Core lead-free options, this formulation provides an excellent balance of affordability, performance, and reliability. A great price point and proven shielding performance make it a trusted choice for facilities seeking consistent protection with a lighter feel than conventional lead aprons.

CORE OVERLAP VEST AND SKIRT

RA-VSA-CO



The Core Overlap Vest and Skirt Apron is a comfortable two-piece radiation protection apron designed to provide comprehensive coverage while reducing strain and improving comfort during extended procedures. Consisting of a separate vest and skirt, the design provides anterior and posterior torso protection from the shoulders to the thighs and distributes weight more evenly across the body for greater comfort.

Both the vest and skirt feature internal Velcro closures to securely fasten the overlapping front panels, along with adjustable front buckle closures. This combination provides a secure, personalized fit while allowing the vest and skirt to be fastened and adjusted independently.

Designed with a 3/4 overlap front, the apron offers either 0.35 mm Pb or 0.50 mm Pb lead equivalency in the front while doubling protection in the overlap area without adding unnecessary weight. The permanent 0.25 mm Pb back panel provides reliable posterior protection with a lighter overall design. In addition, the skirt features a specialized anti-slip lining to help keep it securely in place throughout the day.

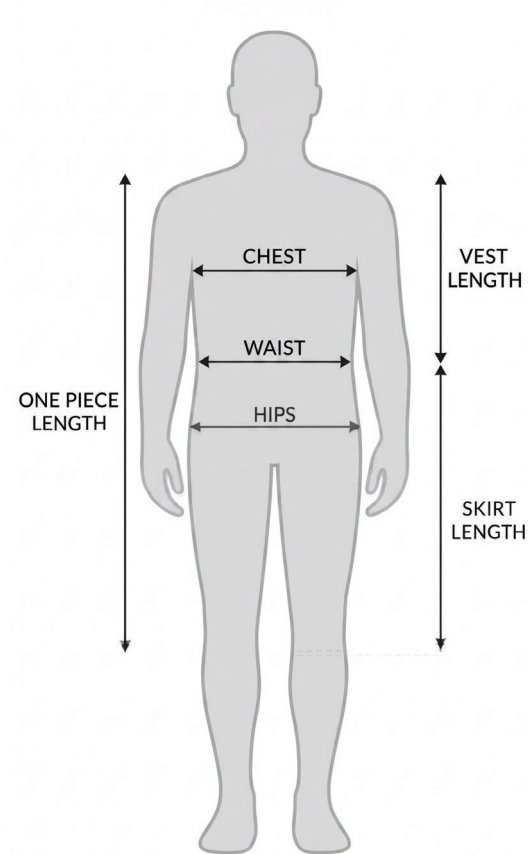
Suitable for both men and women, the Core Overlap Vest and Skirt Apron is available in four core materials: Lightweight Lead, Axion Core™ 1000, Axion Core™ 2000, and Axion Core™ 3000. Customers can also choose from four outer materials – Nylon, Ripstop, Polytron, or PVC EasyClean – along with a variety of colors and binding options. The apron is available in seven sizes ranging from XS to 2XL and complies with the ASTM F3094-14 testing standard.

2-Year Warranty – Radiation protection apparel is covered against manufacturing defects.

AVAILABLE OPTIONS		
CORE MATERIAL Axion Core™ 1000, 2000, 3000, Lightweight Lead	LEAD EQUIVALENCY 0.35mm Pb, 0.50mm Pb 0.25mm Pb back panel	OUTER FABRIC Nylon, Ripstop, Polytron, PVC EasyClean

CORE OVERLAP VEST AND SKIRT

HOW TO MEASURE



GENERAL MEASUREMENTS

1. CHEST

Measure the circumference under your arms around the widest part of your chest.

2. WAIST

Measure the circumference around the narrowest part of your waist.

3. HIPS

Measure the circumference around the widest part of your hips, keeping your feet close together.

TWO-PIECE APRON

1. VEST

Measure the length from the highest point of your trapezius to 2" below your waist.

2. SKIRT

Measure the length from your waist to the top of your knee.

SIZING CHARTS

	MALE VEST		FEMALE VEST		UNISEX SKIRT		
SIZE	Chest Size	Length	Chest Size	Length	Waist Size	Hip Size	Length
XS	34"-36"	22"	32"-34"	20"	26"-27"	32"-33"	19"
Small	36"-38"	23"	34"-36"	21"	28"-29"	34"-35"	19"
Medium	38"-40"	24"	36"-38"	22"	30"-32"	36"-38"	20"
Large	40"-43"	25"	38"-40"	23"	33"-35"	39"-41"	21"
XL	43"-46"	26"	40"-43"	24"	36"-38"	42"-44"	22"
2XL	46"-50"	27"	43"-46"	25"	39"-41"	45"-47"	22"
3XL	50"-54"	28"	46"-50"	26"	42"-45"	48"-49"	22"

Please note: Sizes below XS and above 3XL can be accommodated with custom sizing.

A large, stylized letter 'P' in a dark teal color serves as a background for the page. The 'P' is composed of thick, rounded strokes, with a solid dark circle in the center of its loop.

FABRIC MATERIALS, COLORS & SWATCHES

NYLON

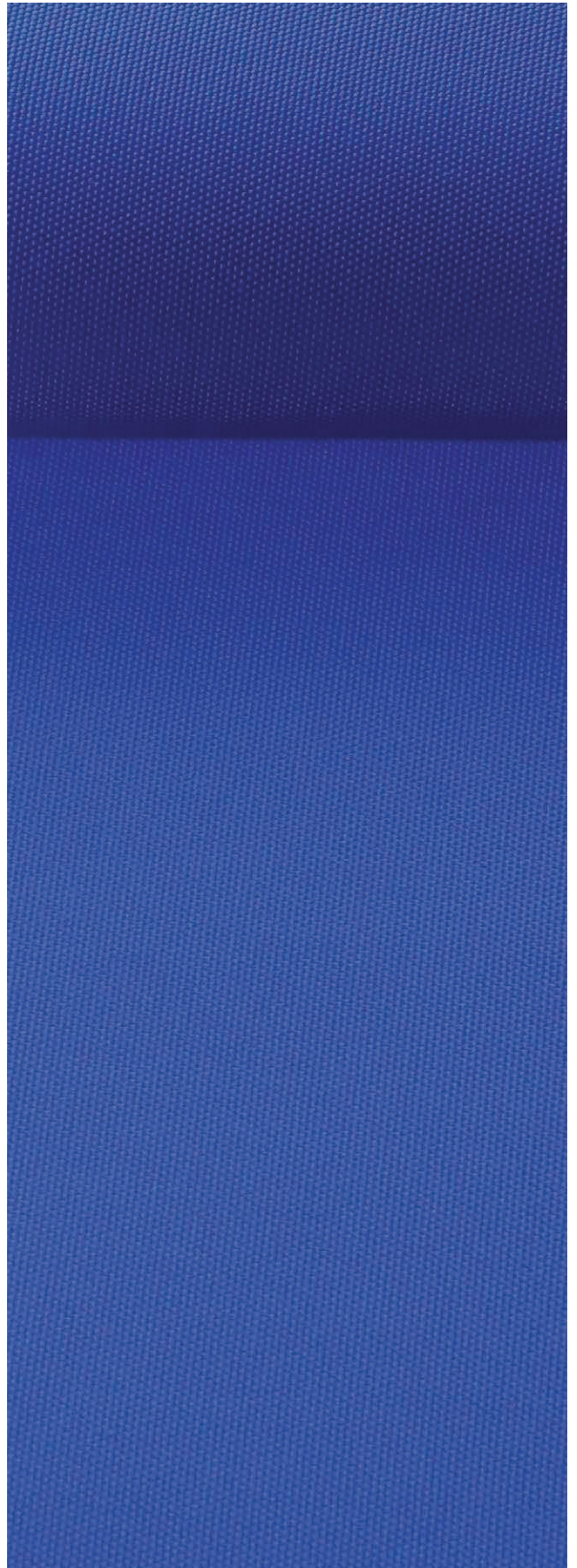
A classic lightweight fabric, Nylon is a synthetic material with high tenacity and excellent abrasion resistance. Nylon is also highly resilient, has good specific strength and provides high resistance to insects, fungi, molds, mildew, rot, and many chemicals.

EXTREMELY RESISTANT

LIGHTWEIGHT

STRONG & DURABLE

MULTIPLE OPTIONS



NYLON

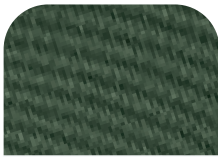
AVAILABLE COLORS & PATTERNS



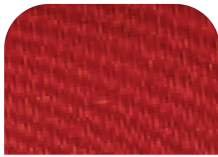
ROYAL BLUE



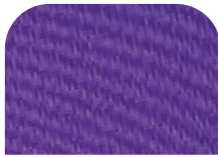
BLACK



HUNTER GREEN



RED



PURPLE



PINK



BURGUNDY



CHARCOAL



DARK BROWN



FLUORESCENT
ORANGE



GOLD



NAVY BLUE



TURQUOISE



MEDIUM BLUE



SILVER



KELLY GREEN



TEAL



COLOR FOSSILS



FISH BONES



SHARKS



FLAMINGO



ORANGE HIBISCUS



HAWAIIAN FLOWERS



TROPICAL AVOCADO



PURPLE PLAID

BINDING AVAILABLE



BLACK



ROYAL
BLUE



HUNTER
GREEN



RED



PURPLE



PINK



BURGUNDY



CHARCOAL



DARK
BROWN



FLUORESCENT
ORANGE



GOLD



NAVY
BLUE



TURQUOISE



MEDIUM
BLUE



SILVER



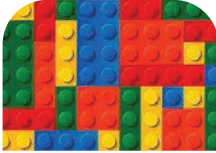
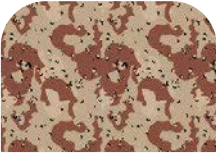
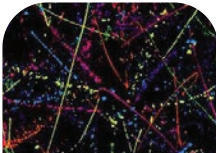
KELLY
GREEN



TEAL

NYLON

AVAILABLE COLORS & PATTERNS

 HEART GRAFFITI	 PINK PAISLEY	 CACTUS	 DOT BLOCKS	 DIGI CAMO WOODLAND GREEN
 NAVY CAMO	 MD CAMO	 DESERT CAMO	 PINK CAMO	 DIGI CAMO GRAY/BLACK
 CHEETAH	 ANIMAL BLUE PRINT	 LEOPARD PINK	 WHITE DOTS ON PINK	 PAINT SPLATTER
 SUGAR SKULLS	 SKULLS	 OCEAN	 SUPERHERO KIDS	 DENTAL
 CATS	 DOGS			

BINDING AVAILABLE

 BLACK	 ROYAL BLUE	 HUNTER GREEN	 RED	 PURPLE	 PINK	 BURGUNDY	 CHARCOAL	 DARK BROWN
 FLUORESCENT ORANGE	 GOLD	 NAVY BLUE	 TURQUOISE	 MEDIUM BLUE	 SILVER	 KELLY GREEN	 TEAL	

RIPSTOP

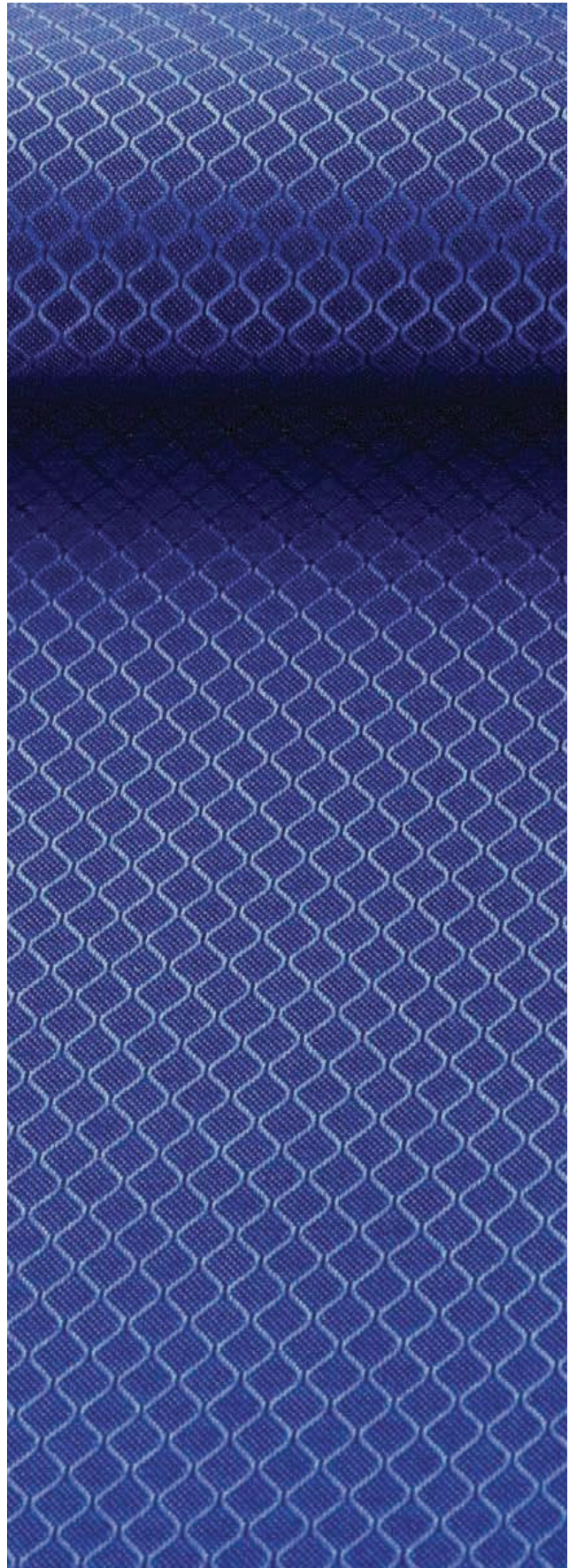
Ripstop is a woven fabric that uses a reinforcing technique which makes it more resistant to tearing and ripping. Often made of Nylon, Ripstop is a lightweight material with interwoven ripstop reinforcement threads in a crosshatch pattern, making it look like diamond stitching.

EXTREMELY RESISTANT

LIGHTWEIGHT

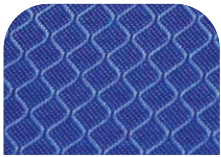
STRONG & DURABLE

DIAMOND STITCHING



RIPSTOP

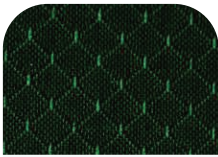
AVAILABLE COLORS & PATTERNS



ROYAL BLUE



BLACK



KELLY GREEN



HUNTER GREEN



RED



CINNAMON



TAN



LIGHT GRAY



PURPLE

BINDING AVAILABLE



BLACK



ROYAL
BLUE



HUNTER
GREEN



RED



PURPLE



PINK



BURGUNDY



CHARCOAL



DARK
BROWN



FLUORESCENT
ORANGE



GOLD



NAVY
BLUE



TURQUOISE



MEDIUM
BLUE



SILVER



KELLY
GREEN



TEAL

PVC EASYCLEAN

PVC EasyClean is a thick fabric that provides a leather-like touch. Made of an ultra resistant material, it is – as the name suggests – very easy to clean: with a quick wipe it is clean and ready to go.

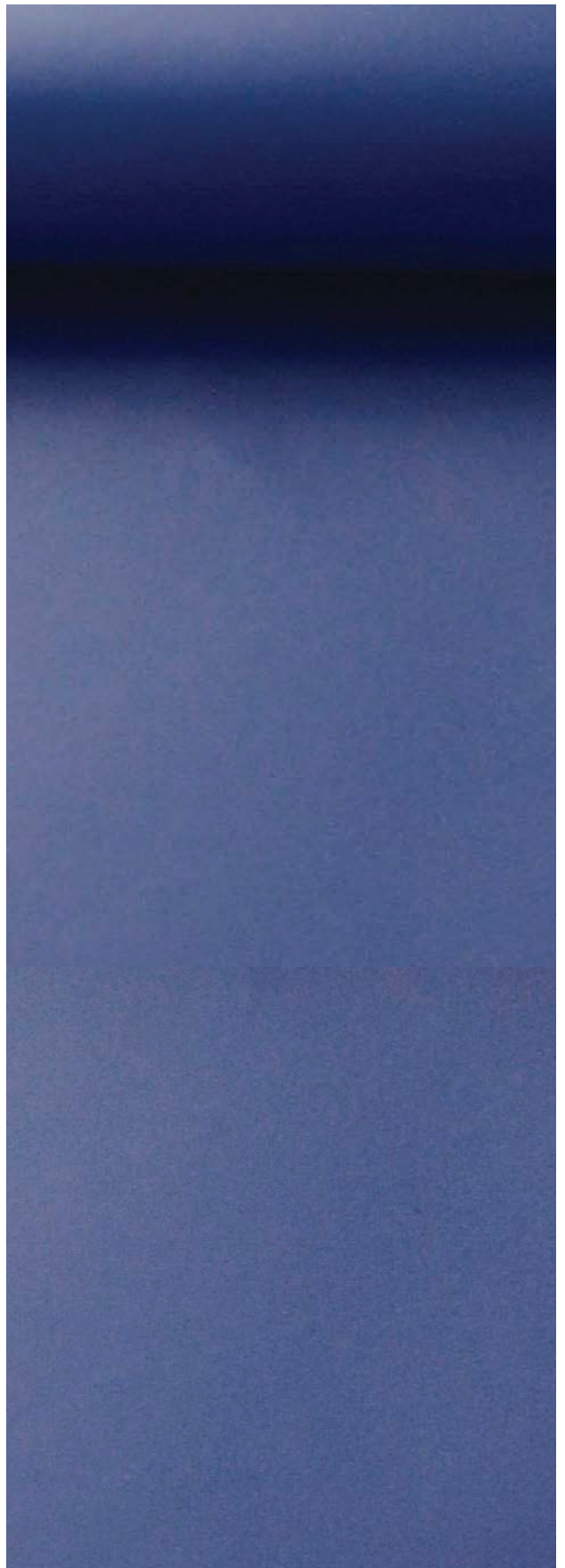
EASY CLEAN

LIGHTWEIGHT

STRONG & DURABLE

EXTREMELY RESISTANT

LEATHER TOUCH



PVC EASYCLEAN

AVAILABLE COLORS & PATTERNS

PVC FABRIC IS BEING PHASED OUT
Color availability is limited
and subject to confirmation



CYAN



PINK



PURPLE



RED



PIRATE



CAMO



PLANETS



LEOPARD

BINDING AVAILABLE



BLACK



ROYAL
BLUE



HUNTER
GREEN



RED



PURPLE



PINK



BURGUNDY



CHARCOAL



DARK
BROWN



FLUORESCENT
ORANGE



GOLD



NAVY
BLUE



TURQUOISE



MEDIUM
BLUE



SILVER



KELLY
GREEN



TEAL

POLYTRON

Polytron is a smooth fabric with a soft touch. Manufactured in the U.S., it has flexible and comfortable qualities due to the Polypropylene it is made of. This lightweight materials is also inherently stain resistant, PFC chemical free, and bleach cleanable.

FLEXIBLE & COMFORTABLE

LIGHTWEIGHT

STRONG & DURABLE

EXTREMELY RESISTANT

SOFT TOUCH

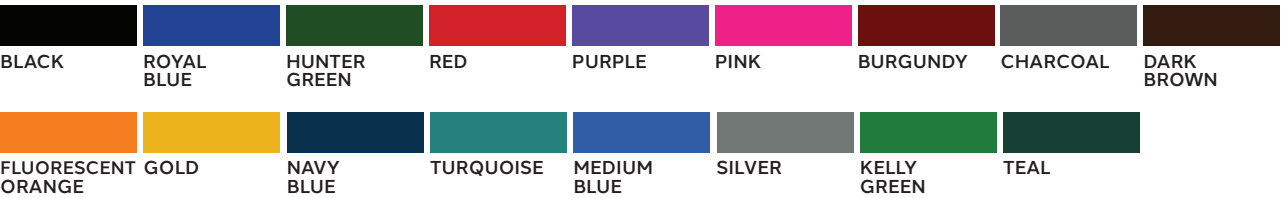


POLYTRON

AVAILABLE COLORS & PATTERNS



BINDING AVAILABLE





EMBROIDERY

If you want a personalized lead apron, at Phillips Safety it is possible to add embroidered logos or text over the patch pocket. You can customize the text as you want it, as long as it features a maximum of 25 characters.

Even better, you can choose from two different fonts: the classic sans-serif typeface Arial, or the script typeface Parkside. In addition, the text can be embroidered in any of the colors below.

NANCY ADAMS

FONT: ARIAL

Nancy Adams

FONT: PARKSIDE

COLORS AVAILABLE



AVAILABLE FOR LEAD APRONS AND THYROID SHIELDS

CONTACT

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