

# **FLEXIBACK FRONTAL WITH VELCRO CLOSURE**

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**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.

# FLEXIBACK / VELCRO CLOSURE

RA-FFA



The Flexiback Frontal with Velcro Closure Apron effectively reduces radiation exposure. Designed to cover the front of the body from the shoulders to the thighs, it offers excellent anterior torso protection. The flexible back design and straps prevent slipping during procedures. For enhanced comfort and security, the apron includes a Velcro closure at the shoulders and on both sides of the waist. This ensures a snug fit by adhering to the front of the body. Additionally, the apron has a patch pocket on the front and shoulder pads to maximize wearer comfort.

The Flexiback Frontal with Velcro Closure is suitable for both men and women and is available in four core materials: Lightweight Lead, Axion Core™ 1000, Axion Core™ 2000, and Axion Core™ 3000, each providing a 0.35mm Pb lead equivalency or 0.50mm Pb lead equivalency. You can choose between four outer materials: Nylon, Ripstop, Polytron, or PVC EasyClean, with a variety of color options and bindings. This apron is offered in seven sizes, ranging from XS to 3XL, 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

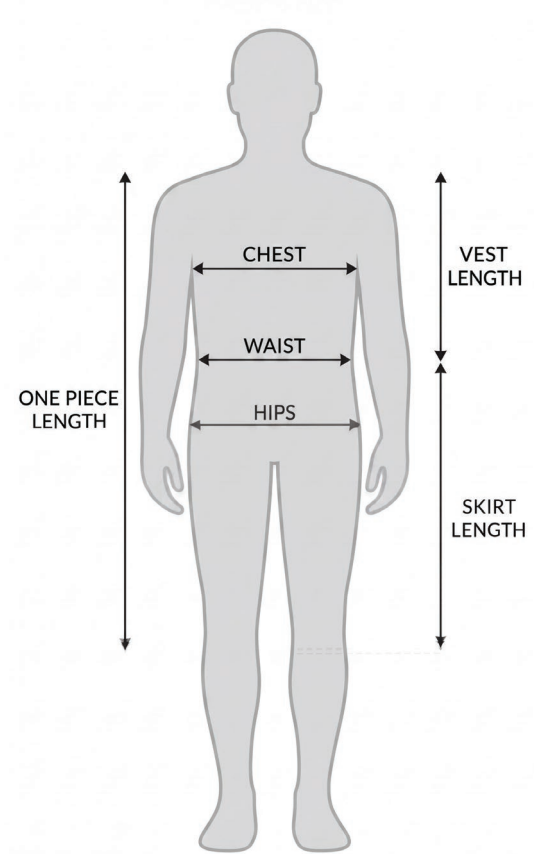
0.35mm Pb  
0.50mm Pb

### OUTER FABRIC

Nylon, Ripstop, Polytron,  
PVC EasyClean

# FLEXIBACK / VELCRO CLOSURE

## 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.

### ONE-PIECE APRON

Measure the length from the highest point of your trapezius to the top of your knee.

## SIZING CHART

### UNISEX

| SIZE   | Chest Size | Length |
|--------|------------|--------|
| XS     | 32"-34"    | 30"    |
| Small  | 34"-36"    | 32"    |
| Medium | 36"-38"    | 34"    |
| Large  | 38"-40"    | 36"    |
| XL     | 40"-43"    | 38"    |
| 2XL    | 43"-46"    | 40"    |
| 3XL    | 46"-50"    | 42"    |

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

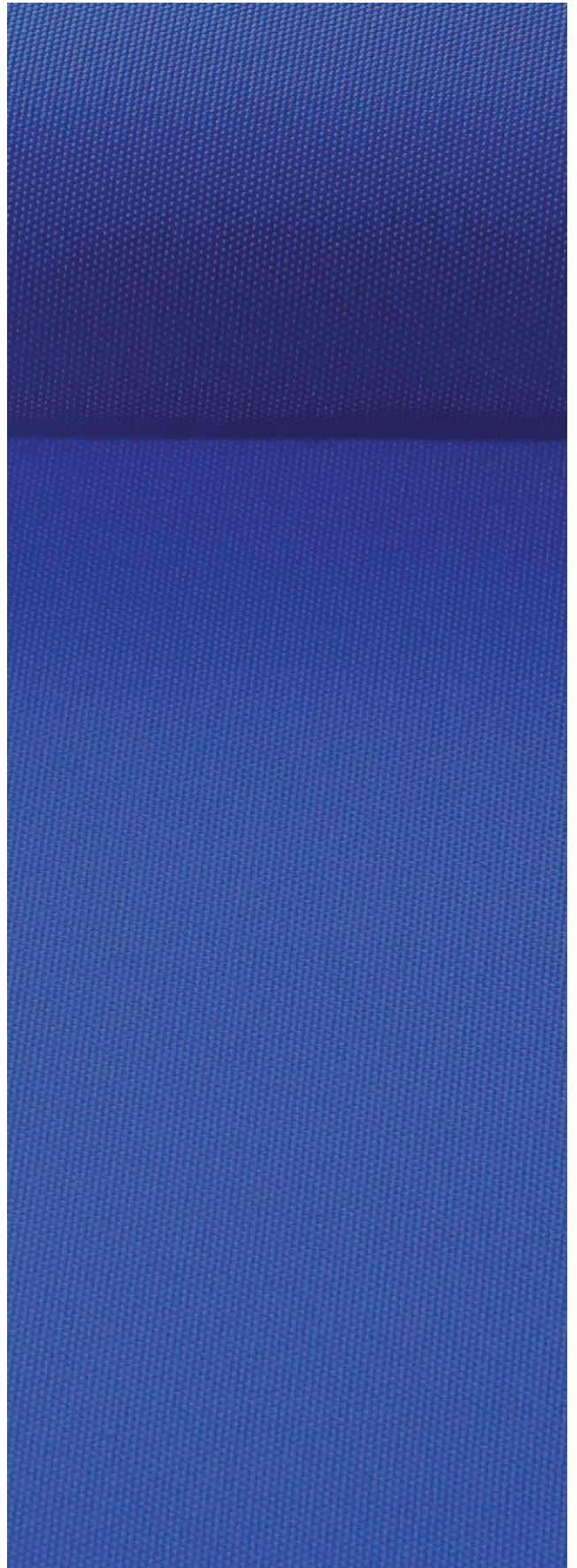
A classic lightweight fabric, Nylon is a synthetic material with high tenacity and excellent abrasion resistance. Nylon is also highly resilient, has good specific strength and provides high resistance to insects, fungi, molds, mildew, rot, and many chemicals.

**EXTREMELY RESISTANT**

**LIGHTWEIGHT**

**STRONG & DURABLE**

**MULTIPLE OPTIONS**



# NYLON

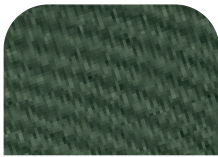
## AVAILABLE COLORS & PATTERNS



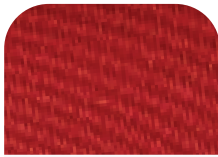
ROYAL BLUE



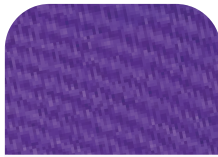
BLACK



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



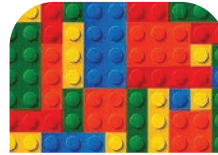
HEART GRAFFITI



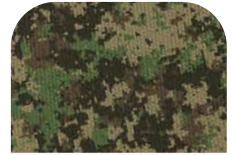
PINK PAISLEY



CACTUS



DOT BLOCKS



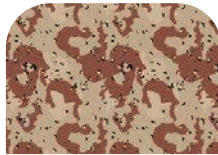
DIGI CAMO  
WOODLAND GREEN



NAVY CAMO



MD CAMO



DESERT CAMO



PINK CAMO



DIGI CAMO  
GRAY/BLACK



CHEETAH



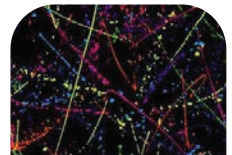
ANIMAL  
BLUE PRINT



LEOPARD PINK



WHITE DOTS ON PINK



PAINT SPLATTER



SUGAR SKULLS



SKULLS



OCEAN



SUPERHERO KIDS



DENTAL



CATS



DOGS

## BINDING AVAILABLE



# RIPSTOP

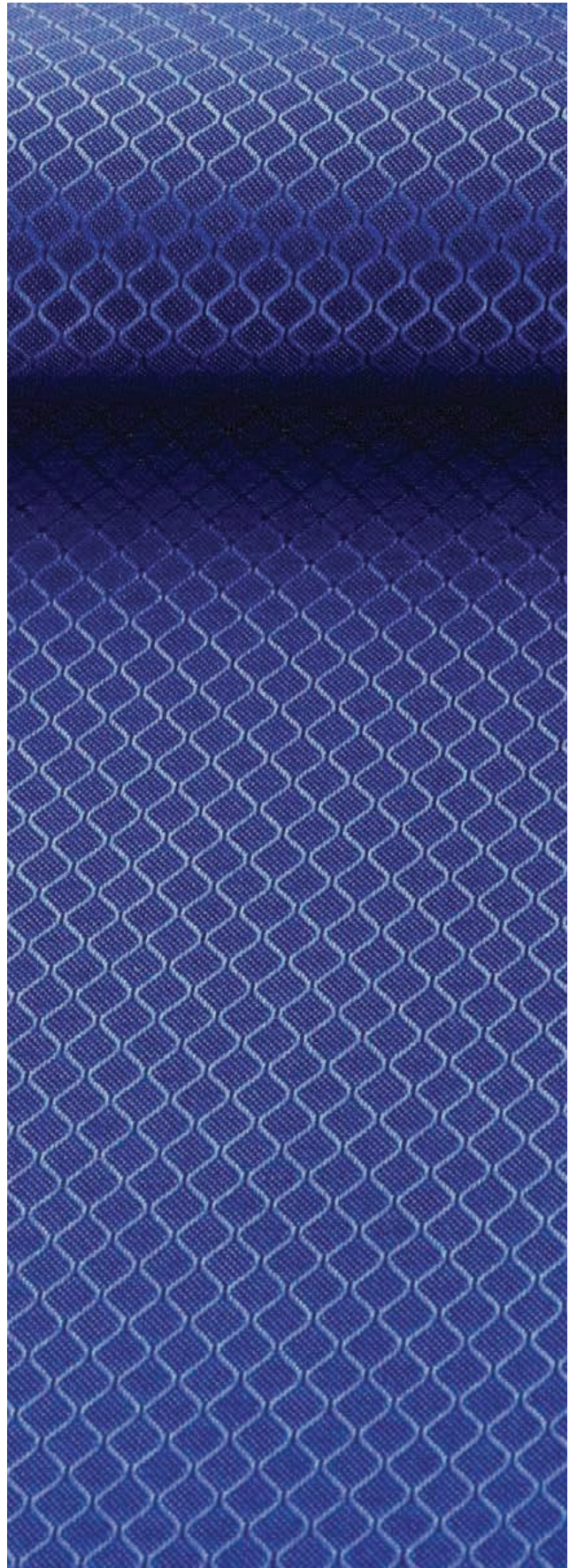
Ripstop is a woven fabric that uses a reinforcing technique which makes it more resistant to tearing and ripping. Often made of Nylon, Ripstop is a lightweight material with interwoven ripstop reinforcement threads in a crosshatch pattern, making it look like diamond stitching.

**EXTREMELY RESISTANT**

**LIGHTWEIGHT**

**STRONG & DURABLE**

**DIAMOND STITCHING**

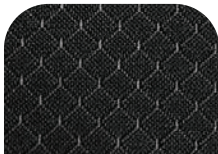


# RIPSTOP

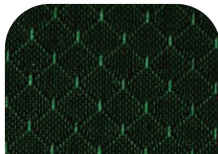
## AVAILABLE COLORS & PATTERNS



ROYAL BLUE



BLACK



KELLY GREEN



HUNTER GREEN



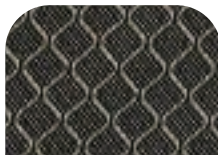
RED



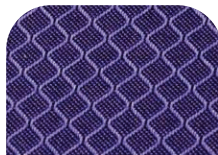
CINNAMON



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.

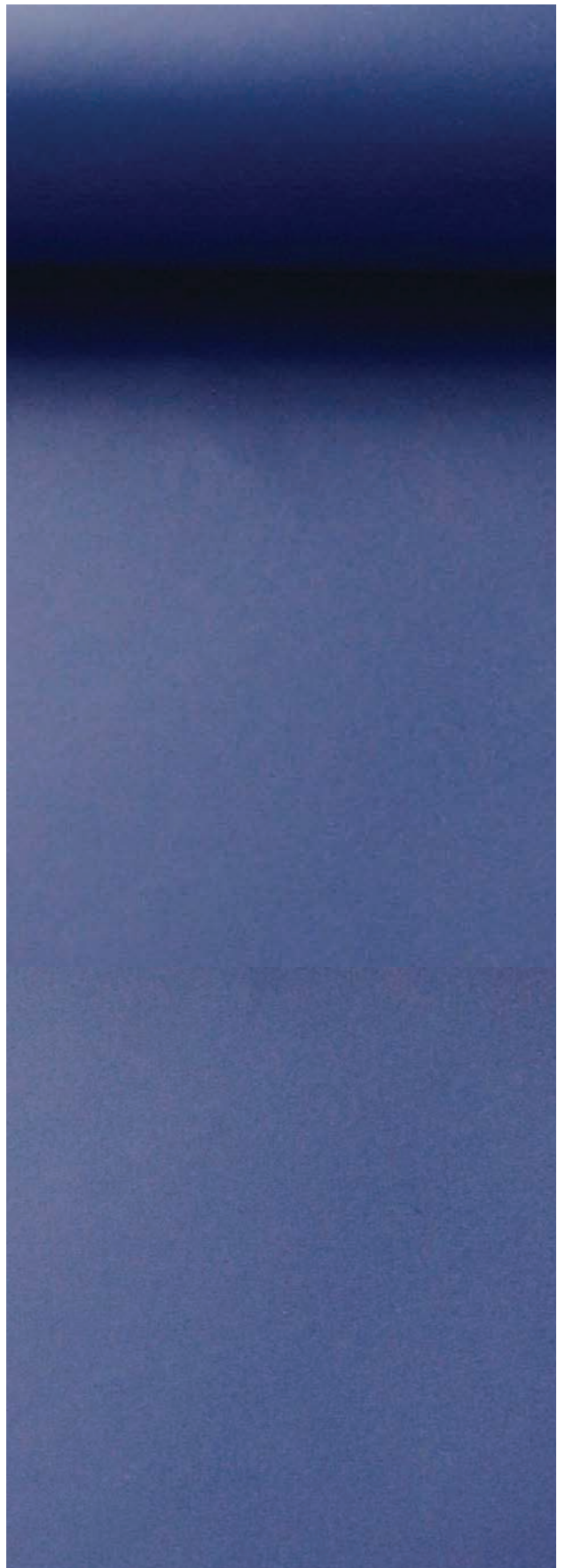
**EASY CLEAN**

**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**

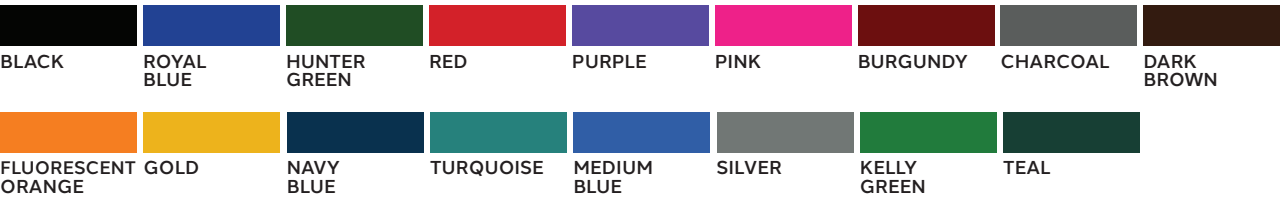


# POLYTRON

## 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.



FONT: ARIAL



FONT: PARKSIDE

## COLORS AVAILABLE



**AVAILABLE FOR LEAD APRONS AND THYROID SHIELDS**

# CONTACT

Should you need any further information,  
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