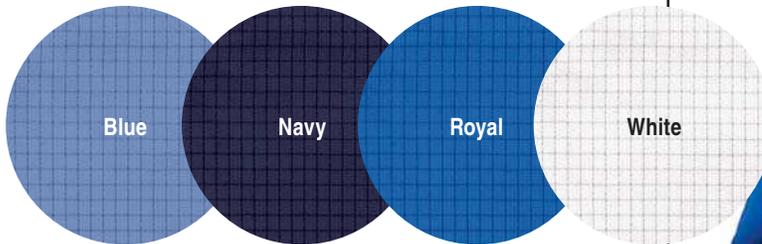


Unisex & Ladies' Microstat ESD Lab Wear

- Snap closure
- Lapel collar
- Three patch pockets
- Set-in sleeves
- Adjustable snaps at wrists
- Color-coded hang loop denotes size
- Sizes: XS - 5XL

Fabric: 65% Polyester / 34% Cotton / 1% Carbon

Colors Available:



● Static Control Garment

Meets requirements for classifications as a Static Control Garment at 50% Relative Humidity (72°F).

● **Garment Tested** according to ESD STM2.1- 1997 and pending revision (2012).

● **Awarded Certificate of Conformance** to ANSI/ESD S20.20.

● **Surface Resistivity** 1×10^{11} ohms at 50% Relative Humidity (72°F).

ESD Lab Wear System Microstat

Offers unique characteristics to meet specific manufacturing requirements. Donned in microelectronics assembly, repair, testing, packaging and other cleanroom peripheral areas where static control remains critical for the unimpairment of the product.

Worklon®

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PRODUCT SPECIFICATION



Description: Unisex & Ladies' Microstat ESD Lab Wear

Sizes: XS - 5XL

Styles & Colors:

- 30" Length Short Coats
 - Blue - Style # 425
 - Royal - Style # 6101
 - White - Style # 424
- 33" Length Lab Jackets
 - Blue - Style # 3430
 - Navy - Style # 3431
 - Royal - Style # 3432
 - White - Style # 3433
- 41" Length Lab Coats
 - Blue - Style # 473
 - Navy - Style # 6102
 - Royal - Style # 6100
 - White - Style # 463
- 36½" Length Ladies' Skimmer Coat
 - Blue - Style # 474

Fabric: 65% Polyester / 34% Cotton / 1% Carbon
5 oz./sq. yd. Poplin

Garment Handling, Washing & Finishing Recommendations

1. Avoid surfaces and conveyances which would cut, snag or be abrasive to garments.
2. Promptly mend/repair garments to avoid extending damage (tears, snags, holes).
3. Similar blends, colors, soil content and garment types should be segregated for processing to minimize overwash, physical damage and cross contamination of garments. Always wash whites separately.
4. Do not overload washers to avoid insufficient cleaning, rinsing and excessive garment wrinkling. 50% loading for "Y" and 60 to 65% for open and split pocket.
5. Frequently check and repair inside of washers and conditioners for damage that can snag or otherwise damage garments.
6. Check, adjust (or repair) water levels, leaking drains and supply lines to avoid improper chemistry concentration, wash temperature control and rinsing effectiveness.
7. Check wash supply delivery systems for correct operation.
8. Use chemistry commensurate with soil level and end use of the garment. Certain soils may require special supplements or pretreatments. (Chemical supplier should be consulted)
9. Wash temperatures should not exceed 150F.
10. The nylon-carbon conductive component of this fabric will be deteriorated by chlorine bleaching. Chlorine bleaching will deteriorate colors in any substrate.
11. Softeners should not be used as they interfere with moisture absorbency and mask soil release finish.
12. Always program wash cycle with cool down in rinse steps to minimize thermal shock wrinkling. Never unload over 100°F.
13. Souring should be done in last step (low level) resulting in pH of 5.0 to 6.0.
14. Avoid centrifugal extraction which exceeds IOOG's. Diaphragm and hydraulic ram extractors are not recommended
15. Conditioners should have properly functioning temperature controllers, moisture detectors and cool down systems. Frequently check and clean lint filters to insure optimum air flow. Do not overload conditioners. 50% rated capacity will reduce wrinkling.
16. If steam finishing tunnels are used, make sure air temperatures of 300 - 320F are maintained which allow garment temperatures of 260-280F to be achieved. Garments should be agitated by steam to help shake out wrinkles. Proper garment cool down should occur before compaction occurs on sorting rails.

Recommended Laundry Procedures

ESD Lab coats are typically light soil overgarments. Changing protocol is 2 to 3 times weekly at the maximum. Soils, such as, dust, pen ink, lint, personal contaminants, and some "ground in" soiling in elbows and sleeves are common.

Care must be exercised in handling, washing and finishing to prevent loss of conductivity of the carbon filament grid and findings throughout the garment. Excessive mechanical and chemical damage to the fabric can shorten the life of the garment as well as cause quality problems for the end user. Because many chemical and processing systems are used in the industry, no one formulation can be relied upon. This formula is intended as a starting point. Always consult your chemical supplier and equipment provider for assistance in "fine tuning" your specific handling, washing and finishing process.

	Step	Time	Water Level	Temp.	Comments
1.	Flush	1-2 Min.	High	Cold	
2.	Break	6-8 Min.	Low	140°F- 150°F	Use built detergent or high silica alkali with pH less than 10. Do not exceed 200-250 ppm (Na ₂ O) to avoid accelerated alkaline hydrolysis.
3.	Carryover (Optional)	6-8 Min.	Low	140°F- 150°F	No additional supplies.
4.	Rinse	2 Min.	High	140°F	
5.	Rinse	2 Min.	High	120°F	
6.	Rinse	2 Min.	High	100°F	
7.	Sour	3-4 Min.	Low	100°F	Sour to 5.5 - 6.5 pH

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