



Data Sheet - Cleanroom Apparel - Static Dissipative Fabric

Worklon SC-3 System - Burlington C3™ Fabric

Worklon SC-3 System Cleanroom apparel / ESD lab wear fabrics are for use in Cleanroom Peripheral Areas, Microelectronics, Disk Drive, Semiconductor, Aerospace, Laser, Precision Machinery, Optical, Pharmaceutical, and similiar industries concerned with controlling static charges and particulates.

Densely woven, static dissipative fabric made of 99% Polyester / 1% Carbon Yarn.

- Excellent durability

| SYSTEM & FABRIC | STATIC DISSIPATIVE | CLEANROOM CLASSES | | | | | |
|-----------------|--------------------|-------------------|-------------|--------------|----------------|-----------------|------------------|
| | | 1 ISO 3 | 10 ISO 4 | 100 ISO 5 | 1,000 ISO 6 | 10,000 ISO 7 | 100,000 ISO 8 |
| SC-3 System | YES | NO | YES | YES | YES | YES | YES |
| Burlington C3™ | | | | | | | |

| Characteristics* | Results* | Tests* |
|----------------------|-------------------------------|-------------|
| Weave | Plain | Visual |
| Carbon Configuration | Grid | Visual |
| Weight | 2.9 oz/yd ² | ASTM-D-3776 |
| Air Permeability | 3.7 crm/ft ² | ASTM-D-737 |
| MVT | 1098 g/m ² /24 hrs | ASTM-E-96D |
| Surface Resistivity | 10 ⁷ ohms/sq | AATCC-76 |

Laundering : Apparel should be processed by a reliable cleanroom laundry.

FABRIC TEST DESCRIPTIONS :

Air Permeability

Air permeability is the rate of air flow through a fabric under a differential pressure between the front and back surfaces. This test measures in cubic feet per minute a fabric's resistance to air flow. These measurements have a direct correlation to the fabric's breathability. High values may indicate poor resistance to particle filtrations.

Moisture Vapor Transmission (MVT)

This test measures the rate of water vapor passing through the fabric in 24 hours by grams per meter squared. The higher the number, the more breathable and comfortable the fabric. Fabrics with very high MVT's are indicative of looser construction and have a greater tendency for bacteria filtration.

Surface Resisitivity

Electrical resistivity influences the accumulation and dissipation of electrostatic charge. This test measures in ohms per square unit the difficulty in which the charges carry flow through a fabric's surface.

Surface Resistivity Ranges:

| | |
|--------------------|--|
| Static Dissipative | 10 ⁵ - 10 ¹² ohms/sq |
| Conductive | ≤ 10 ⁴ ohms/sq |

* **Note** : Technical information is represented as test results on flat goods of fabric and is not intended to function as specifications. C3 is a trademark of Burlington Industries, Inc.