

## ESD Lab Coats Instructions for Use



Made in the  
United States of America



Figure 1. Charleswater Female ESD Lab Coat



Figure 2. Charleswater Male ESD Lab Coat

Charleswater ESD Lab Coats meet the required limit Rp-p less than  $1 \times 10^{12}$  ohms in EN 61340-5-1 tested per ANSI/ESD STM2.1 as noted in Table 3 EPA requirement of EN 61340-5-1 Edition 1.0 2007-08.

“The ESD risk provided by everyday clothing cannot be easily assessed. The current general view of experts is that the main source of ESD risk may occur where ESDS [ESD sensitive items] can reach high induced voltage due to external fields from the clothing, and subsequently experience a field induced CDM [Charged Device Model] type discharge. So ESD control garments may be of particular benefit where larger ESDS having low CDM withstand voltage are handled, and operators habitually wear everyday clothing that could generate electrostatic high fields.” [CLC TR 61340-5-2 2008 User guide Garments sub-clause 4.7.7.1 Introductory remarks]

### Main features:

- 2 side pockets and 1 breast pocket
- Available in two models: for both men and women

- International ESD symbol on breast pocket
- Quick opening and closing snap
- Lightweight, comfortable and breathable material
- Composition: Cotton, Polyester and conductive fibres
- Tough and durable
- Optimized width of conductive grid
- Machine washable (40°C); resistant to repeat washing cycles
- Coats are CE certified
- Standard colour: white
- Custom colours available
- Company logo (embroidered or printed) available on request

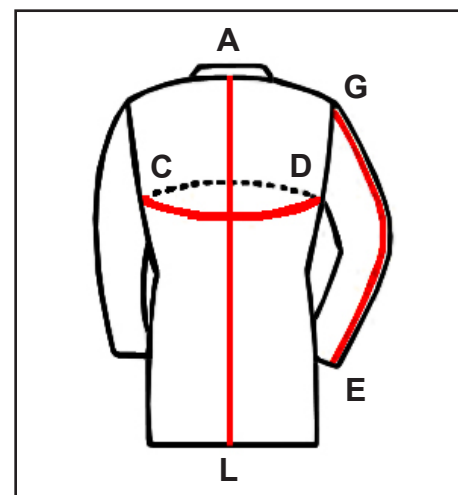


Figure 3. Guide for measurements

### Sizes and Measurements

| Model | Size     | Chest | Shoulders | C-D | A-L | G-E | Ø Wrist |
|-------|----------|-------|-----------|-----|-----|-----|---------|
| Women | X-Small  | 40    | 40        | 102 | 98  | 58  | 15      |
| Women | Small    | 44    | 42        | 108 | 100 | 59  | 15.5    |
| Women | Medium   | 48    | 44        | 114 | 102 | 60  | 16      |
| Women | Large    | 52    | 46        | 120 | 104 | 61  | 16.5    |
| Women | X-Large  | 56    | 48        | 126 | 106 | 62  | 17      |
| Men   | Small    | 42-44 | 48        | 116 | 88  | 60  | 16.5    |
| Men   | Medium   | 46-48 | 50        | 122 | 92  | 61  | 17      |
| Men   | Large    | 50-52 | 52        | 128 | 96  | 62  | 17.5    |
| Men   | X-Large  | 54-56 | 54        | 134 | 100 | 63  | 18      |
| Men   | 2X-Large | 58-60 | 56        | 140 | 104 | 64  | 18.5    |

Please note that measurements are in cm and are an indication only.  
Measurements equal average sizes and can be subject to change without notice.

### Description

Comfortable ESD dissipative lab coats are ideal for any production environment in which sensitive items (ESDS) are being handled. The coats offer ESD protection using the principle of the Faraday cage shielding ESDS from electrostatic charges on operator's clothing. The buttons at the front have an overlap which avoids direct contact with parts.

## Women's Model:

| Item                  | Description                   |
|-----------------------|-------------------------------|
| <a href="#">72120</a> | Women White Lab Coat, X-Small |
| <a href="#">72121</a> | Women White Lab Coat, Small   |
| <a href="#">72122</a> | Women White Lab Coat, Medium  |
| <a href="#">72123</a> | Women White Lab Coat, Large   |
| <a href="#">72124</a> | Women White Lab Coat, X-Large |

## Men's Model:

| Item                  | Description                  |
|-----------------------|------------------------------|
| <a href="#">72125</a> | Men White Lab Coat, Small    |
| <a href="#">72126</a> | Men White Lab Coat, Medium   |
| <a href="#">72127</a> | Men White Lab Coat, Large    |
| <a href="#">72128</a> | Men White Lab Coat, X-Large  |
| <a href="#">72129</a> | Men White Lab Coat, 2X-Large |

## Technical Properties:

| Composition (nominal)             |                                 |
|-----------------------------------|---------------------------------|
| Cotton                            | 37.4%                           |
| Polyester                         | 60.2%                           |
| Conductive Fibres                 | 2.4%                            |
| Weight                            | 146 g/m <sup>2</sup>            |
| Washing Instructions              |                                 |
| Washing                           | Machine washable up to 40°C     |
| Ironing                           | Ironing temperature up to 150°C |
| Bleaching                         | Do not bleach                   |
| Dry cleaning                      | Dry clean (normal treatment)    |
| Tumble Drying                     | Low drying temperature          |
| Surface Resistance                |                                 |
| Test Voltage                      | 100V                            |
| Surface Resistance R <sub>S</sub> | < 5 x 10E10 ohms                |

### Limited Warranty

Charleswater expressly warrants that for a period of one (1) year from the date of purchase, Charleswater ESD Lab Coats will be free of defects in material (parts) and workmanship (labor). Within the warranty period, the product will be tested, repaired or replaced at Charleswater's option, free of charge. Call Customer Service at 00 44 (0) 1892-665313 for a Return Material Authorisation (RMA) and for proper shipping instructions and address. You should include a copy of your original packing slip, invoice, or other proof of purchase date. Any unit under warranty should be shipped prepaid to the Charleswater factory. Warranty replacements will take approximately two weeks.

### Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

### Limit of Liability

In no event will Charleswater or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.