

ESD Men's Work Trousers cornflower blue, 170 g/m², sizes 38 to 64, size 46 - A1-ESD

Item no. M2010-180-3-5

Manufacturer A1-ESD

EAN 4251584606621

Cornflower blue men's work trousers in continental waist sizes 38 to 64, 170 g/m² made from 48 percent cotton, 48 percent polyester and 4 percent conductive yarn. Comfort waistband with side elastic, double rule pocket on the right, surface resistance 10⁵ to 10⁷ ohms.

TECHNICAL DATA

Ausführungsklasse	ESD (antistatic)
Certification	IEC 61340-5-1
Colour	Cornflower Blue
Country of Manufacture	Germany
ESD equipment	ESD Bekleidung
Size	46
Weight	0.1 kg



STANDARDS & COMPLIANCE

ESD safe EN 61340-5-1:2016 DIN EN 61340-5-1:2016

DESCRIPTION

The usual route to ESD trousers runs through a comparison with whatever was worn before. Ordinary work trousers cost less but do not drain charge, so inside an EPA they have to be compensated by other grounding measures. These trousers bring the dissipation with them in the fabric.

That job is done by 4 percent conductive yarn in a blend of 48 percent cotton and 48 percent polyester. Surface resistance was determined at STFI as 10⁵ to 10⁷ ohms. A weight of 170 g/m² is heavy enough to hold the shape and light enough not to press over an eight hour shift.

Cornflower blue is the classic works colour for assembly and board population. It has stood for manufacturing for decades, looks neither clinical nor casual and forgives the traces of a normal working day.

YOUR BENEFITS

- **Waist sizes 38 to 64:** Fourteen sizes in steps of two cover a mixed crew, so neither slim nor heavy build calls for a separate reorder later on.
- **Dissipation in the cloth, not an add on:** The conductive yarn runs through the whole panel. There is no tape that comes loose and no coating that stops working around the fortieth wash.
- **Two side pockets:** The front pockets sit where they remain reachable while seated at an

assembly bench, and keys or a probe do not press against the edge of the table.

- **Zip fly:** The zip replaces a button placket that pops open when leaning against the bench. It can also be operated with gloves on at the soldering station.
- **170 g/m² fabric weight:** Enough substance not to wear through on the edges of jigs and racks, and light enough to stay wearable next to a wave soldering machine in summer.
- **Special colours on request:** Companies running their own house colour can have it made on request. For everyday requirements cornflower blue is a catalogue colour available from stock.

MATERIAL AND FABRIC

The cloth is lint free compact cotton yarn with a polyester blend, precisely 48 to 48 percent, plus 4 percent conductive yarn. Cotton takes up moisture and does not feel cold against the skin, polyester keeps leg length and waistband stable across the service life. Compact cotton is also less prone to odour than pure synthetic fabrics.

- 48 percent cotton, 48 percent polyester, 4 percent conductive yarn
- Fabric weight 170 g/m²
- Lint free compact cotton yarn
- Conductive yarn woven across the entire surface

LASTING DISSIPATION AND WASH RESISTANCE

In practice dissipative clothing is retired not because it wears out but because the effect fades. High grade silver yarn is worked into the weave through a process developed in house, so the conductive grid is part of the fabric, and conductivity is retained after repeated washing and wearing. Industrial laundry is part of the design brief.

CONSTRUCTION IN DETAIL

The comfort waistband with side elastic absorbs movement without any need to retighten the belt. The front closes with a zip fly. Two side pockets at the front, one back pocket with a press stud flap and a double rule pocket on the right give a layout meant for assembly and wiring work. The ESD logo identifies the garment as part of the dissipative outfit.

- Comfort waistband with side elastic
- Zip fly at the front
- Two side pockets
- Back pocket with press stud flap
- Double rule pocket on the right
- ESD logo on the garment

FIT AND SIZE RANGE

In cornflower blue the trousers are available in continental waist sizes 38 to 64, that is fourteen steps. There are no letter sizes for this model, measurement follows waist width. The size chart is provided as a PDF in the downloads tab of this page and helps with a collective order.

CORNFLOWER BLUE ON THE SHOP FLOOR

Cornflower blue sits in the brightness range where coarse soiling still shows while fine abrasion does not dominate the picture straight away. For board population, mechanical assembly and goods receipt that is a sound compromise between white and black. As an established works colour it also matches existing clothing in other departments, which keeps the move to ESD outfits visually unobtrusive.

TECHNICAL DATA

Type	ESD men's work trousers, long
Colour	Cornflower blue
Material	48 % cotton, 48 % polyester, 4 % conductive yarn
Fabric weight	170 g/m ²
Surface resistance	10 ⁵ to 10 ⁷ ohms
Test basis	DIN EN 61340-5-1:2016, tested at STFI
Test climate	23 (+/- 1) °C, 25 (+/- 5) % relative humidity
Waistband	Comfort band with side elastic
Closure	Zip fly
Pockets	Two side pockets, back pocket with flap, double rule pocket
Decoration	Printable up to 160 °C, suitable for embroidery
Size	46
EAN	4251584606621
Customs tariff number	6203.4211
Brand	A1-ESD

APPLICATIONS

- Board population and mechanical assembly of subassemblies
- Goods receipt and picking of ESD sensitive components
- Wiring and control cabinet build in electrical manufacturing
- Maintenance and workshop tasks in an EPA environment
- Training areas and induction benches in production

CARE AND SERVICE LIFE

The trousers are suitable for industrial laundry and designed for the laundry cycle of a manufacturing site. The polyester share keeps waistband, seams and leg length dimensionally accurate over many cycles, and the conductivity of the woven silver yarn is retained. The sewn in care label is the binding reference.

FINISHING AND CUSTOM VERSIONS

The trousers are suitable for embroidery and printable up to 160 °C, with a sample print

recommended beforehand. A cargo pocket with a mobile phone compartment, a contrast version and further selectable items are made to order on request, as are other colours and finishes outside the catalogue. Ask us for a quotation.

STANDARDS AND TESTING

Dissipation and surface resistance were successfully tested at STFI to DIN EN 61340-5-1:2016. The measured value is 10^5 to 10^7 ohms, the test climate 23 (+/- 1) °C and 25 (+/- 5) percent relative humidity. No certification against any further ESD standards exists so far, and none is claimed here.