

ESD polo shirt short sleeve navy, 180 gsm piqué with conductive yarn, size 5XL - A1-ESD

Item no. M200-180-5-11

Manufacturer A1-ESD

EAN 4251584601503

Short sleeve polo in navy, fine 180 gsm piqué of 96 % cotton and 4 % conductive yarn. Conductive rib knit collar, three button placket, left chest pocket and an ESD logo on the left sleeve. Navy is the classic works colour and matches trousers, vests and jackets already in stock.

TECHNICAL DATA

Ausführungsklasse	ESD (antistatic)
Certification	IEC 61340-5-1
Colour	Navy
Country of Manufacture	Germany
ESD equipment	ESD Bekleidung
Size	5XL
Weight	0.35 kg



STANDARDS & COMPLIANCE

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

DESCRIPTION

Anyone building a fleet of workwear thinks in years rather than seasons. Navy is therefore the most ordered colour in manufacturing plants. It goes with almost any work trouser already in the store, forgives light traces of use and still looks presentable after two years in the laundry loop when a customer walks through the hall.

None of that changes the technical task. Inside an EPA the human body is the largest mobile source of charge, and around 100 volts can already destroy a sensitive structure. This polo brings the wearer's clothing into the dissipation concept through 4 % conductive yarn knitted straight into the piqué.

Together that makes a garment which can be ordered in quantity without a debate about how it looks. All twelve sizes come from the same production series.

YOUR BENEFITS

- **A works colour that fits the store:** Navy combines with trousers, jackets and vests already in use. Switching to ESD tops barely shows, which takes the friction out of the introduction phase.
- **Quiet behaviour with dirt:** Dust from the store, fingerprints at the collar, a splash of coffee. Dark blue keeps everyday marks discreet without making real contamination such as oil

completely invisible.

- **Conductive rib knit collar:** The collar is knitted from conductive yarn and rests at the neck. It stays part of the dissipation path whether the polo is worn closed or with the placket open.
- **180 gsm for long service life:** The weight is high enough to survive many wash cycles and low enough for a warm hand. In fleet purchasing that service life is what decides the cost per wearing day.
- **10⁵ to 10⁸ ohms, STFI tested:** Surface resistance was measured at 23 °C and 25 % relative humidity. That figure carries more weight in an audit conversation than any general statement about antistatic properties.
- **Reactive dyeing:** The dye bonds chemically to the cotton fibre, so a repeat order from a later batch does not stand out on the shelf as a lighter or darker block.
- **Twelve sizes from stock:** From 3XS to 6XL, shipped from our own warehouse, including smaller quantities for replacements and new colleagues.

MATERIAL AND FABRIC

The fabric is a fine piqué at 180 gsm made from 96 % compact cotton and 4 % conductive yarn. The cotton is ring spun, which makes the yarn smoother and more stable than rotor yarn. For a fleet washed every week that is exactly the point. The collar stands longer, the hem does not curl, the garment stays in circulation for more cycles.

Cotton also brings what synthetics lack in an EPA. It charges less by itself, sheds almost no lint in this quality and absorbs moisture instead of leaving it on the surface. At the end of a late shift the difference is noticeable in the smell, which is a mundane argument until a fleet is worn by two shifts a day.

- 96 % cotton, 4 % conductive yarn
- 180 gsm fine piqué
- Ring spun yarn for shape retention
- Reactive dyed for a consistent navy shade
- Low lint, low odour, moisture absorbing

CONSTRUCTION IN DETAIL

The rib knit collar in conductive yarn keeps its shape even when the polo is worn daily and washed weekly. The three button placket has colour matched buttons and can be worn open or closed without the neckline losing shape. That matters more for a fleet than for a single garment, because here every item passes through many wearers.

Inside, a colour matched neck tape sits over the shoulder seam, stabilising the neckline and separating the seam from the skin. The chest pocket is on the left, the ESD logo on the left sleeve, which makes it recognisable from outside that this is not an ordinary company polo.

- Conductive rib knit collar
- Three button placket, colour matched buttons
- Neck tape over the shoulder seam
- Left chest pocket

- ESD logo on the left sleeve

CONDUCTIVITY ACROSS THE SERVICE LIFE

As the conductive component a silver yarn is processed in a method developed specifically for this fabric. The practical core is simple: dissipation sits in the yarn and therefore in the knit, not in a finish on the surface. It is retained after repeated washing and wear.

For a fleet that pays off directly. When garments do not have to be retired early because dissipation has faded, the cost per wearing day falls, and sample measurements taken under the EPA programme deliver stable values over a longer period instead of drifting batch by batch.

FIT AND SIZE RANGE

Twelve sizes from 3XS to 6XL cover an entire workforce, from a slim build to an outsize fit, without part of the team having to switch to a different cut. Sales and shipping run from our own warehouse, and smaller quantities are available as well.

The binding size chart is available as a PDF in the Downloads tab of this product page. For a fleet order it pays to run a fitting round with three sizes and to use the result as the distribution key for the main order. Two weeks spent on that step prevent a cupboard full of garments nobody can wear.

NAVY ACROSS THE FLEET

Navy is the pragmatic standard colour. Dark enough for assembly, stores and service centres, presentable enough for customer contact and trade fairs. In a mixed fleet it combines well with code colours, with navy as the base issue and red or cobalt blue marking particular roles. For plants moving to ESD tops step by step it is the least conspicuous colour to start with.

TECHNICAL DATA

Style	Polo shirt, short sleeve, three button placket
Colour	Navy
Material	96 % cotton, 4 % conductive yarn
Fabric weight	180 gsm
Knit	Fine piqué from ring spun yarn
Dyeing	Reactive dyed
Collar	Conductive rib knit collar
Pocket	Left chest pocket
Neck tape	Colour matched
Marking	ESD logo on the left sleeve
Surface resistance	10 ⁵ to 10 ⁸ ohms
Testing	DIN EN 61340-5-1:2016, tested by STFI
Test climate	23 +/- 1 °C, 25 +/- 5 % relative humidity

Decoration	Print up to 160 °C, suitable for embroidery
Size	5XL
EAN	4251584601503
Customs tariff number	6110.2091
Brand	A1-ESD

APPLICATIONS

- Assembly work and placement lines
- Stores and picking of electronic components
- Service centres and workshops with customer contact
- Training and induction workstations inside the EPA
- Trade fair duty and demonstrations with open equipment

CARE AND SERVICE LIFE

The polo is designed for commercial laundering, which is the normal case for a fleet. Ring spun yarn and the piqué structure keep collar and hem in shape, while reactive dyeing holds the navy shade consistent across the stock. Conductivity is retained over many washing and wearing cycles. Details are on the care label.

FINISHING AND CUSTOM VERSIONS

Decoration is carried out in Germany. The knit takes print up to 160 °C and suits embroidery, with a sample print recommended beforehand. Equipment options are available on request: sleeves with conductive knitted cuffs, a contrast execution, long sleeve with conductive rib cuffs. Special colours on request as well.

STANDARDS AND TESTING

Testing for dissipation and surface resistance to DIN EN 61340-5-1:2016 was completed successfully at STFI. The measured value is 10^5 to 10^8 ohms in a test climate of 23 +/- 1 °C and 25 +/- 5 % relative humidity. No testing or certification to further ESD standards exists and none is claimed.