

ESD
CLOTHING



CLEVERTEX®

We are pleased to introduce you the new catalogue of CleverTex® ESD protective wear, shoes and accessories.

Antistatic ESD protective wear belongs to the basic parts of the wardrobe of each worker, who works with electrostatic discharge sensitive components (ESDS) where electrostatic discharge can occur. This would damage such parts and/or the whole product involving ESDS parts. Antistatic protective garments minimize such risks and can increase by this way manufacturing quality.

Please, come and make your choice of the widest range of certified ESD protective wear on the Czech market.

Registered trademark CleverTex® covers a wide set of various high value added functional protective textile products resulting from long-time R&D activities of the Czech innovative company VÚB a.s. Ústí nad Orlicí.

These products represent the results of research and development in the field of textile technology, which belongs to one of main activities of VÚB a.s. company.

Since 2008, we offer CleverTex® antistatic ESD clothing and thanks to a perfect background of the company VÚB a.s. and own research and development activities we are able to continually improve and provide the wider portfolio of the offered products.

We are pleased to dress also your company according to your idea.

CLEVERTEX®
SPECIAL, PROTECTIVE AND FUNCTIONAL TEXTILES

Our team can offer you

- **customized quotation within 24 hours**
- **immediate response to queries**
- **personal consultation at your facility possible**
- **news e-mailing service**
- **sample production**

contact:

clevertex@clevertex.cz

catalogue content

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ESD polo-shirts

98 % cotton / 2 % polyester antistatic

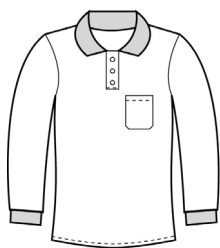
160 g/m²

antistatic black strip pattern 10 mm

Very popular variant of ESD garment. Elegant polo-shirt with chest pocket and grey or black collar with three-button placket. Antistatic sewing threads are applied in the seams across the strips to ensure the conductivity.

Permanent antistatic properties. Machine washable.

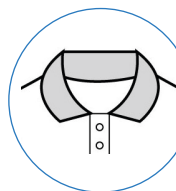
unisex XS - 7XL (size charts see page 12)



code: ESD130



code: ESD140



grey or black
ribbed collar
possible for both
product models



EN 61340-5-1 ed. 2



white



grey



black



dark blue



royal blue



green



yellow



orange



red

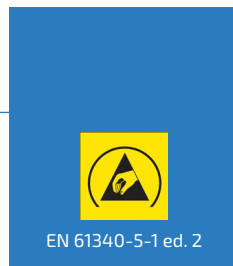
+ embroidery / printing



photo: type ESD140, color royal blue, grey collar

ESD T-shirts

98 % cotton / 2 % polyester antistatic
160 g/m²
antistatic black strip pattern 10 mm



High quality cotton ESD T-shirt belongs to the basic parts of the wardrobe of each worker, who works with electrostatic discharge sensitive components (ESDs). Prevailing share of combed cotton (98%) makes the T-shirt very comfortable with good sweat absorption and pleasant touch. Antistatic sewing threads are applied in the seams across the strips to ensure the conductivity. Permanent antistatic properties. Machine washable.

unisex XS - 7XL (size charts see page 12)



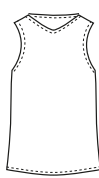
code: ESD101-0
code: ESD102-0

code: ESD101-V
code: ESD102-V



code: ESD111-0
code: ESD112-0

code: ESD111-V
code: ESD112-V

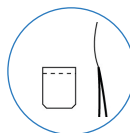


code: ESD121-0
code: ESD122-0

code: ESD121-V
code: ESD122-V



"V" or "O" neck possible for each product models



chest pocket is possible on each of product models



ESD sweatshirts

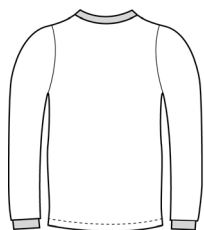
52 % cotton / 48 % polyester (min. 3 % polyester antistatic)

300 g/m²

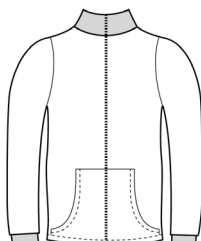
black strip pattern 5 mm

Comfortable and warming ESD sweatshirt can be an ideal solution for winter season or chilly storage spaces. There are two product models at disposal - basic design (ESD201) with "O" neck and well-worked out product model (ESD203) full-front zip fastened, two kangaroo pockets, stand-up collar and rib elastic cuffs. Antistatic sewing threads are applied in the seams across the strips to ensure the conductivity. Permanent antistatic properties. Machine washable.

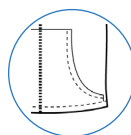
unisex XS - 7XL (size charts see page 12)



code: ESD201



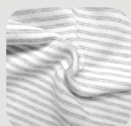
code: ESD203



possible tailoring
of kangaroo
pocket design



EN 61340-5-1 ed. 2



white



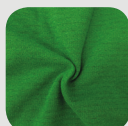
graphite



black



royal blue



green



yellow



orange



red

+ embroidery / printing



photo: type ESD203, color royal blue

ESD vests

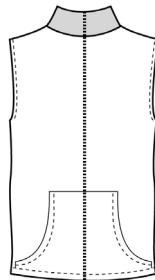
52 % cotton / 48 % polyester (min. 3 % polyester antistatic)
300 g/m²
black strip pattern 5 mm

ESD vest using fashion design (pattern) of sweatshirt model ESD203 can be worn throughout the whole year as a universal garment.
The vest product model (ESD204) is full-front zip fastened, with two kangaroo pockets, stand-up collar and rib elastic cuffs.
Permanent antistatic properties. Machine washable.

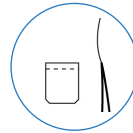
unisex XS - 7XL (size charts see page 12)



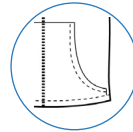
EN 61340-5-1 ed. 2



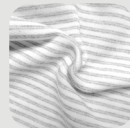
code: ESD204



chest pocket is possible on each product model



possible tailoring of kangaroo pocket design



white



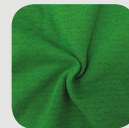
graphite



black



royal blue



green



yellow



orange



red



ESD insulated vests

66 % cotton / 34 % polyester + inner layer

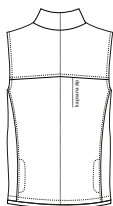
(min. 3 % polyester antistatic)

200 g/m² + Inner layer 200 g/m²

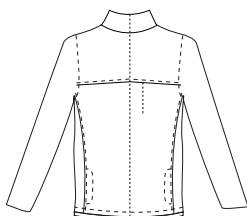
antistatic black grid pattern 10mm

Comfortable and warming ESD vest can be an ideal solution for winter season. The vest is especially designed for work in chilly storage spaces and for workers who often move between buildings. Fashion design allows maximum freedom for hands, comfort and heat insulation. The vest is full-front zip fastened, with one welt zip-fastened chest pocket, two side pockets and stand-up collar. Permanent antistatic properties. Machine washable.

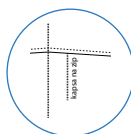
unisex XS - 7XL (size charts see page 12)



code: **ESD214**



code: **ESD215**



welt zip-fastened chest pocket



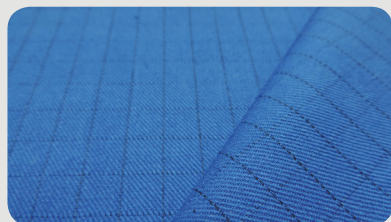
EN 61340-5-1 ed. 2



royal blue



graphite



detail of the material - royal blue

+ embroidery / printing



photo: type ESD214, color royal blue

ESD jackets

66 % cotton / 34 % polyester (min. 3 % polyester antistatic)

200 g/m²

antistatic black strip pattern 10 mm

Working ESD jackets with two lapel chest pockets and two side pockets can be worn throughout the whole year. Full-front zip fastening can be concealed. Two-colour design and the combination of jackets and trousers can offer fashionable, fully functional and comfortable ESD antistatic complete clothing. Partly elasticated both lower edges. Permanent antistatic properties. Machine washable.

unisex XS - 7XL (size charts see page 12)



EN 61340-5-1 ed. 2

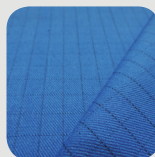


color inset

code: ESD601



+ embroidery / printing



royal blue

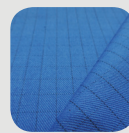


graphite

+



graphite



royal blue

+



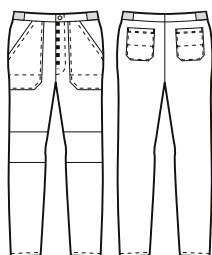
ESD trousers

66 % cotton / 34 % polyester (min. 3 % polyester antistatic)
200 g/m²
antistatic black strip pattern 10 mm

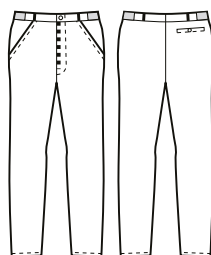
We can offer two product models - basic working trouser design (ESD301) or more fashioned product model (ESD311).
Front zip fastened, waist shirr, two side pockets and two hip pockets.
Permanent antistatic properties. Machine washable.

Type **ESD301**: unisex XS - 7XL (size charts see page 12)

Type **ESD311**: men's 44 - 64, women's 38 - 60 (size charts see page 12)



code: **ESD301**



code: **ESD311**



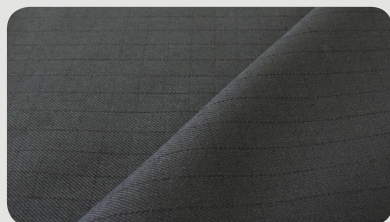
EN 61340-5-1 ed. 2



royal blue



graphite



detail of the material - graphite

+ embroidery / printing



photo: type ESD301, color royal blue

ESD working coats

66 % cotton / 34 % polyester (min. 3 % polyester antistatic)
160 g/m²
antistatic black strip pattern 10 mm

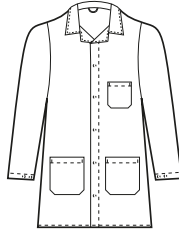
Significant share of cotton provides pleasant touch and physiological and wearing comfort (sweat absorption, permeability). Polyester fibres ensure higher fabric and product stability, wrinkle resistance and long service life.

Conductive polyester fibres containing carbon micro-particles create black grid pattern ensuring conductivity of the products within the whole surface as well as across the seams. Simple straight cut is snap fastened with chest pocket and two patch pockets. Permanent antistatic properties. Machine washable.

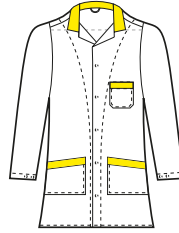
unisex XS - 7XL (size charts see page 12)



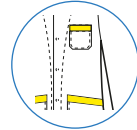
EN 61340-5-1 ed. 2



code: ESD501



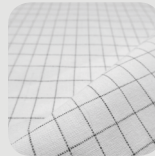
code: ESD502



colourful details
- collars, pocket
flaps



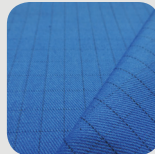
+ embroidery / printing



white



light blue



royal blue



graphite



ESD shoes and accessories

Top quality antistatic shoes represent very important part of working outfit, especially when needed to be worn 40 working hours weekly, if not more. German ABEBA® brand is always one step ahead in both design and comfort of the shoes. Wide choice of shoe types can only confirm the great success of this brand on European and world markets.



"Protective shoes is unforgettable part of each ESD workplace, that is why we offer the shoes of manufacturer, who is able to combine functionality, comfort and price into one complex - ABEBA"



Light working shoes



Safety shoes



Shoes for cleanrooms



Managerial shoes

To ensure comprehensive safety of your operation we can offer other ESD accessories:

- spiral cables
- wrist straps - basic, metallic
- antistatic shoe cover
- shoe grounding straps
- sticky pads for elimination of impurities from footwear
- ESD caps



EN 61340-5-1 ed. 2



Size charts

Polo-shirts, T-shirts, sweatshirts, vests, jackets and trousers (ESD 301) - in cm

US signification	XS		S		M		L		XL	
size	44	46	48	50	52	52	54	54	56	58
chest	88	92	96	100	104		108		112	116
neck	37	38	39	40	41	42	43	44	45	46
waist	76	80	84	88	92		98		102	108
out-seam length	105-108		105-108		108-109		110-111		110-111	
height	174-178		174-178		178-182		182-184		184-186	

US signification	2XL		3XL		4XL		5XL	
size	60	62	64	66	68	70	72	74
chest	120	124	128	132	136 140		144 150	
neck	47	48	49	50	51	52	53 54	
waist	112	118	122	126	130	134	138 140	
out-seam length	112-114		116-118		116-118		116-118	
height	186-188		188-190		188-190		188-190	

possibility produce up to 7XL

Trousers (ESD311) - in cm

men's

size	44	46	48	50	52	54
height	182	182	182	182	182	182
low hip	76	80	84	88	92	98

size	56	58	60	62	64
height	182	182	182	182	182
low hip	102	108	114	120	124

women's

size	38	40	42	44	46	48
height	168	168	168	168	168	168
low hip	94,5	98	101,5	105	108,5	114

size	50	52	54	56	58	60
height	168	168	168	168	168	168
low hip	119,5	125	130,5	136,5	142,5	148,5

PRODUCTION OF ESD WEAR

Certification

CleverTex® antistatic wear and accessories are made of special yarn with proper share of carbon coated fibres. Functional features of our ESD wear are regularly tested and certified by accredited laboratories and fully meet the requirements of relevant European Standard EN 61340-5-1 even after 50 washing cycles, which is in practice well comparable with real useful life of such products.

Resistance between
two points

$$R_{p-p} < 1.10^{12} \Omega$$

Permanent properties

Conductive polyester fibres applied in CleverTex® antistatic clothing contain carbon particles and create black grid or strip pattern in the products. By this way proper conductivity of the products is ensured within the whole surface as well as across the seams. The share of carbon is designed so that EN 61340-5-1 (ESD) Standard requirements are met. Functional fibres are composed of carbon particles firmly embedded in the surface of polyester base, which fact ensures permanent antistatic properties of the product. This is the main advantage of this product compared with the other ones made of surface finished fabrics, whose antistatic properties fade after several washing cycles.

Made in the Czech Republic

Whole manufacturing process of antistatic and ESD protective wear, is realized in the Czech Republic, as we believe in high standards and quality of Czech production. The customers can take advantage of this and ask individual solutions and modifications according to their concrete needs. Such on demand and customized production allows us to react flexibly and at the same time to guarantee high quality and commensurate prices.

- more colors and cuts
- individual adjustment of cuts
- flexible production
- quality control

ABOUT US

OUR GOAL

To create valuable and useful textile applications as a direct reaction on actual needs of human society as well as its individuals. Our activities are always done with strong emphasise on product quality, orientation on customers interests and satisfaction.

„Registered trademark CleverTex® “ represents high value added functional textile products. These products have been enriched by new unique function properties going beyond the expectations of our customers“

VISION

Recent technological development, especially in the field of electronics, clearly shows future orientation. We are trying to raise the clothing importance from fashionable aspects through integration of various functional properties on a higher level. Registered trademark CleverTex® follows the trends of special protective and functional textiles and has been based on the results research and development projects solved by VÚB a.s. We are trying to keep and develop long term and mutually beneficial relations between marketing and research and development activities. We are free to new ideas and inventions that could even sometimes be considered too visionary. Our goal is to achieve the state that CleverTex® will be presented and perceived as a symbol of innovation in the world of functional textiles.

VÚB a.s. AND ITS HISTORY

CleverTex® products could be met for the first time in 2010, i.e. the year of official registration of this trade mark. This trade mark is owned by VÚB a.s. Ústí nad Orlicí. This company conducts their business and manufacturing activities already more than 68 years, i.e. since 1949. However, the grounds for CleverTex® trade mark are dated from the beginning of 21st century, i.e. with the realisation of the results of the first projects successfully solved in the field of research and development of special textiles.

These first results became the base of present product portfolio represented first of all by antistatic ESD wear for electro-technical industry and flame resistant functional underwear for firefighters and emergency units of Czech police. We are convinced that the development of the trademark is adherent to our close and long term relations with the customers.

CLEVERTEX solution

Our will to anticipate new requirements is an important aspect of our work. We are ready to be the partner for unconventional and interesting textile solutions.



CleverTex development

We do not get behind. We are still working on new research projects. Thanks to high know-how we are able to create unique textile materials.



CleverTex quality

Functional textile materials require high quality manufacture. We apply well proved manufacturing processes, certification and practical verification tests.



CleverTex solution

Our will to anticipate new requirements is an important aspect of our work. We are ready to be the partner for unconventional and interesting textile solutions





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