



ESD GARMENTS WITH

OEKO-TEX® CERTIFICATE



STANDARD
100

25.3.0243
INNOVATEX

ABOUT OUR COMPANY

D és Tsa Bt. was established in 1996. It is a 100 % Hungarian owned company. Our main business segment is to provide help in static control - we offer a large scale of products, and different services for ensure well-working ESD protection at companies. These can be helpful for providing security in electronic manufacturing and prevent the damage of electronic products by static discharge. Our business grew gradually through the years. We established our reputation both on domestic and international markets with our quality, self-produced ESD garments. You can purchase ESD entrance systems, test stations and measurement instruments with our AIJGO brand name. We produce our ESD garments according to the international ESD standards current at all times, actually they are: IEC 61340-4-9:2016 and ANSI/ESD STM2.1-2018. We use the following label type to mark this:



In the partner network of D és Tsa Bt. there are leading multinational electronics manufacturing corporations, which look on our company as their strategic supplier partner on ESD issues. Our outstanding results could be thank to our highly professional readiness, flexibility and the high quality standards of our sales and production. D és Tsa Bt. is a certified company on the basis of EN ISO 9001:2015 quality management system.

OEKO-TEX® STANDARD 100 CERTIFICATE – to prove that products are harmless for human health

We were granted with Oeko-Tex® Standard 100 certificate for more products from our ESD Polo-shirts and ESD T-shirts as well.

"Oeko-Tex® Standard 100 is one of the world's best-known labels for textiles tested for harmful substances."

"If a textile article carries the STANDARD 100 label, you can be certain that every component of this article, i.e. every thread, button and other accessories, has been tested for harmful substances and that the article therefore is harmless for human health."

The test is conducted by independent OEKO-TEX® partner institutes on the basis of an extensive OEKO-TEX® criteria catalog. "In the test they take into account numerous regulated and non-regulated substances, which may be harmful to human health. In many cases the limit values for the STANDARD 100 go beyond national and international requirements."

Source: <https://www.oeko-tex.com/en/our-standards/oeko-tex-standard-100>



TS15 FABRIC

FEATURES

- > Static dissipative knitted fabric (with carbon yarn)
- > **Composition:** 96% Cotton 4% Conductive fibre
- > **Fabric weight:** 150 g/m²
- > **Finish:** Crease resist, workwear
- > **Resistance from point to point (Rp):** 10⁶ - 10⁷ Ohm
- > **Charging time:** < 2 seconds
- > Complies with IEC 61340-4-9:2016 and ANSI/ESD STM2.1:2018, and keeps this compliance after more than 40 industrial washings
- > Developed for industrial washing

AVAILABLE COLOURS

Black (**BK**), Navy Blue (**NB**), Royal Blue (**RB**), Dark Grey (**DG**), Grey (**GA**), White (**W**)



The colour shades of our fabric products may vary from shipment to shipment.

WARRANTY

- > The warranty is strictly valid under controlled and documented industrial laundry conditions, concern the fabric washing cycle as specified in the technical data's.
- > The warranty is NOT valid if the washing process is made in home environment!
- > The warranty covers ESD parameters and possible sewing errors according to IEC 61340-4-9:2016 and ANSI/ESD STM2.1:2018 standard issued only!
- > The warranty does not cover the size and shrinkage differences within the tolerances given at the size charts!
- > Our clothing products are provided with the "Operating instructions with symbols" according to the MSZ EN ISO 3758:2012 standard.
- > If the product shows improper tampering (e.g. tread extension or tearing), the complaint can be rejected.

WASHING INSTRUCTIONS

Conductive carbon fibres used in ESD fabrics are very sensitive to high temperatures, alkalis, acids, rinses (softeners) and bleaches. Inadequate use may cause damage to carbon fibres and ESD clothing may lose or significantly deteriorate ESD parameters. Therefore, wash ESD clothing very carefully, in each case please follow the instructions:

- i** In order to preserve the long life of ESD clothings, please use industrial laundries who can provide controlled, documented washing procedures and environment
- i** Wash in cold or not warmer than 40 °C (104 °F) lukewarm water with neutral liquid detergent
- i** Do not use detergents and / or rinse aids that contain bleach and / or chlorine
- i** Bleachers are forbidden
- i** Do not use rinse aids or detergents with a high alkali or high acid content
- i** Do not dry clean
- i** Dry in the open air and / or at a temperature up to 50 °C (120 °F)
- i** Does not require ironing, but if absolutely necessary, iron at a maximum temperature of 110 °C (230 °F) without steaming
- i** Wash all items inside out
- i** Using deodorant can damage the color of the product
- i** When drying clothes outdoors, do not expose them to direct sunlight
- i** Tighten the zippers before each wash





TKO/F ESD T-SHIRT

SHORT SLEEVE, ROUND NECK, NO POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Round neck
- » Without any pocket
- » ESD symbol on sleeve

MALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	20,5	21,5	22,5	23,5	25	26,5	28	29,5	31
Length	63	66	69	72	75	78	81	84	87
Chest	100	106	112	118	124	130	136	142	148
Shoulder	41	43	45	47	49	51	54	57	60

Size tolerance (Before washing): 2%

AVAILABLE FABRICS AND COLOURS

TS15 FABRIC



Embroidered or printed company logo or text is available upon request! Individual custom made ESD clothing is also available!



The sizechart below shows the dimensions before washing. After washing, it should be calculated with a shrinkage of 8-10% for width (mainly for breast size).

ORDERING CODES

TKOF - **TS15** - **BK L**
 style female fabric colour size

TKZF - **TS15** - **GA L**
 style female fabric colour size



Clothing certified according to the international ESD standards, as indicated by this label.



Clothing certified according to the Oeko-Tex® Standard 100.



TKZ/F ESD T-SHIRT

SHORT SLEEVE, ROUND NECK, BREAST POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Round neck
- » Breast pocket with ESD symbol

FEMALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	20,5	21,5	22,5	23,5	25	26,5	28	29,5	31
Length	63	66	69	72	75	78	81	84	87
Chest	82	86	91	96	102	110	114	118	122
Waist	66	70	75	80	86	94	98	104	108
Hip	90	94	99	105	111	117	123	129	135
Shoulder	39	40	41	42	43	44	45	46	47

Size tolerance (Before washing): 2%



AVAILABLE FABRICS AND COLOURS

TS15 FABRIC



Embroidered or printed company logo or text is available upon request! Individual custom made ESD clothing is also available!



The sizechart below shows the dimensions before washing. After washing, it should be calculated with a shrinkage of 8-10% for width (mainly for breast size).



LKO/F ESD T-SHIRT

LONG SLEEVE, ROUND NECK, NO POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Round neck
- » Without any pocket
- » ESD symbol on sleeve

ORDERING CODES

LKOF - TS15 - BK L

style female fabric colour size

LKZF - TS15 - GA L

style female fabric colour size

LKZ/F ESD T-SHIRT

LONG SLEEVE, ROUND NECK, BREAST POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Round neck
- » Breast pocket with ESD symbol

MALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	51,5	53	57	61	63	65	67	67	68
Length	63	66	69	72	75	78	81	84	87
Chest	100	106	112	118	124	130	136	142	148
Shoulder	41	43	45	47	49	51	54	57	60

Size tolerance (Before washing): 2%



Clothing certified according to the international ESD standards, as indicated by this label.



Clothing certified according to the Oeko-Tex® Standard 100.

FEMALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	51,5	53	57	61	63	65	67	67	68
Length	63	66	69	72	75	78	81	84	87
Chest	82	86	91	96	102	110	114	118	122
Waist	66	70	75	80	86	94	98	104	108
Hip	90	94	99	105	111	117	123	129	135
Shoulder	39	40	41	42	43	44	45	46	47

Size tolerance (Before washing): 2%



TGO/F ESD T-SHIRT

SHORT SLEEVE, V-NECK, NO POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » V-neck
- » Without any pocket
- » ESD symbol on sleeve

MALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	20,5	21,5	22,5	23,5	25	26,5	28	29,5	31
Length	63	66	69	72	75	78	81	84	87
Chest	100	106	112	118	124	130	136	142	148
Shoulder	41	43	45	47	49	51	54	57	60

Size tolerance (Before washing): 2%

AVAILABLE FABRICS AND COLOURS

TS15 FABRIC



Embroidered or printed company logo or text is available upon request!
Individual custom made ESD clothing is also available!



The sizechart below shows the dimensions before washing.
After washing, it should be calculated with a shrinkage of 8-10% for width (mainly for breast size).

ORDERING CODES

TGOF - **TS15** - **GR L**

style female fabric colour size

TGZF - **TS15** - **NB L**

style female fabric colour size



Clothing certified according to the international ESD standards, as indicated by this label.



Clothing certified according to the Oeko-Tex® Standard 100.



TGZ/F ESD T-SHIRT

SHORT SLEEVE, V-NECK, BREAST POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » V-neck
- » Breast pocket with ESD symbol

FEMALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	20,5	21,5	22,5	23,5	25	26,5	28	29,5	31
Length	63	66	69	72	75	78	81	84	87
Chest	82	86	91	96	102	110	114	118	122
Waist	66	70	75	80	86	94	98	104	108
Hip	90	94	99	105	111	117	123	129	135
Shoulder	39	40	41	42	43	44	45	46	47

Size tolerance (Before washing): 2%



AVAILABLE FABRICS AND COLOURS

TS15 FABRIC



Embroidered or printed company logo or text is available upon request! Individual custom made ESD clothing is also available!



The sizechart below shows the dimensions before washing. After washing, it should be calculated with a shrinkage of 8-10% for width (mainly for breast size).



LGO/F ESD T-SHIRT

LONG SLEEVE, V-NECK, NO POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » V-neck
- » Without any pocket
- » ESD symbol on sleeve

ORDERING CODES

LGOF - TS15 - GR L

style female fabric colour size

LGZF - TS15 - NB L

style female fabric colour size

LGZ/F ESD T-SHIRT

LONG SLEEVE, V-NECK, BREAST POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » V-neck
- » Breast pocket with ESD symbol

MALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	51,5	53	57	61	63	65	67	67	68
Length	63	66	69	72	75	78	81	84	87
Chest	100	106	112	118	124	130	136	142	148
Shoulder	41	43	45	47	49	51	54	57	60

Size tolerance (Before washing): 2%



Clothing certified according to the international ESD standards, as indicated by this label.



Clothing certified according to the Oeko-Tex® Standard 100.

FEMALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	51,5	53	57	61	63	65	67	67	68
Length	63	66	69	72	75	78	81	84	87
Chest	82	86	91	96	102	110	114	118	122
Waist	66	70	75	80	86	94	98	104	108
Hip	90	94	99	105	111	117	123	129	135
Shoulder	39	40	41	42	43	44	45	46	47

Size tolerance (Before washing): 2%



AVAILABLE FABRICS AND COLOURS

TS15 FABRIC



Embroidered or printed company logo or text is available upon request! Individual custom made ESD clothing is also available!



The sizechart below shows the dimensions before washing. After washing, it should be calculated with a shrinkage of 8-10% for width (mainly for breast size).



PGO/F ESD POLO-SHIRT

SHORT SLEEVE, COLLAR, NO POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Without any pocket
- » ESD symbol on sleeve
- » Hidden snap-fasteners
- » **OPTIONAL:** Collar from its own fabric, Code: SAA

MALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	20,5	21,5	22,5	23,5	25	26,5	28	29,5	31
Length	63	66	69	72	75	78	81	84	87
Chest	100	106	112	118	124	130	136	142	148
Shoulder	41	43	45	47	49	51	54	57	60

Size tolerance (Before washing): 2%

ORDERING CODES

PGOF - **TS15** - **NB L**
 style female fabric colour size

PGZF - **TS15** - **RB L**
 style female fabric colour size



Clothing certified according to the international ESD standards, as indicated by this label.



Clothing certified according to the Oeko-Tex® Standard 100.

PGZ/F ESD POLO-SHIRT

SHORT SLEEVE, COLLAR, BREAST POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Breast pocket with ESD symbol
- » Hidden snap-fasteners
- » **OPTIONAL:** Collar from its own fabric, Code: SAA

FEMALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	20,5	21,5	22,5	23,5	25	26,5	28	29,5	31
Length	63	66	69	72	75	78	81	84	87
Chest	82	86	91	96	102	110	114	118	122
Waist	66	70	75	80	86	94	98	104	108
Hip	90	94	99	105	111	117	123	129	135
Shoulder	39	40	41	42	43	44	45	46	47

Size tolerance (Before washing): 2%



AVAILABLE FABRICS AND COLOURS

TS15 FABRIC



Embroidered or printed company logo or text is available upon request! Individual custom made ESD clothing is also available!



The sizechart below shows the dimensions before washing. After washing, it should be calculated with a shrinkage of 8-10% for width (mainly for breast size).



QGO/F ESD POLO-SHIRT

LONG SLEEVE, COLLAR, NO POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Without any pocket
- » ESD symbol on sleeve
- » Hidden snap-fasteners
- » **OPTIONAL:** Collar from its own fabric, Code: SAA

ORDERING CODES

QGOF - TS15 - NB L
 style female fabric colour size

QGZ/F ESD POLO-SHIRT

LONG SLEEVE, COLLAR, BREAST POCKET

FEATURES

- » Available sizes: Unisex XS - 5XL, female (F) XS - 5XL
- » Female model: Slim style
- » Breast pocket with ESD symbol
- » Hidden snap-fasteners
- » **OPTIONAL:** Collar from its own fabric, Code: SAA

QGZF - TS15 - RB L
 style female fabric colour size

MALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	51,5	53	57	61	63	65	67	67	68
Length	63	66	69	72	75	78	81	84	87
Chest	100	106	112	118	124	130	136	142	148
Shoulder	41	43	45	47	49	51	54	57	60

Size tolerance (Before washing): 2%



Clothing certified according to the international ESD standards, as indicated by this label.



Clothing certified according to the Oeko-Tex® Standard 100.

FEMALE (CM)	XS	S	M	L	XL	XXL	3XL	4XL	5XL
Sleeve	51,5	53	57	61	63	65	67	67	68
Length	63	66	69	72	75	78	81	84	87
Chest	82	86	91	96	102	110	114	118	122
Waist	66	70	75	80	86	94	98	104	108
Hip	90	94	99	105	111	117	123	129	135
Shoulder	39	40	41	42	43	44	45	46	47

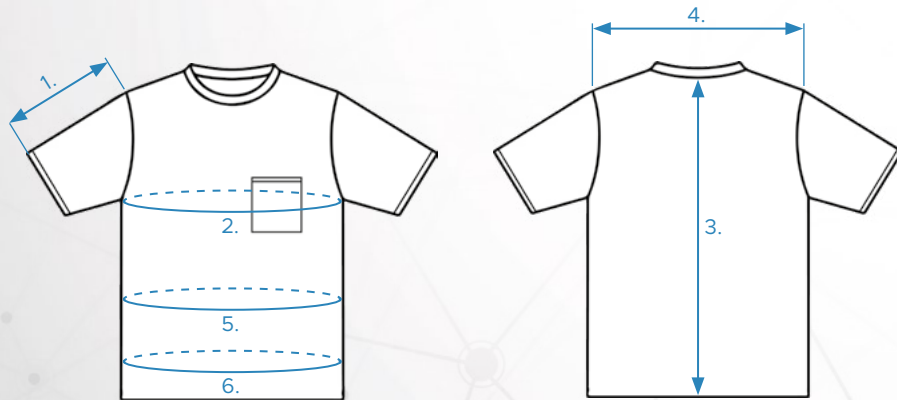
Size tolerance (Before washing): 2%

○ SIZE CHARTS

TKO/F TKZ/F TGO/F TGZ/F
PGO/F PGZ/F

DESCRIPTION

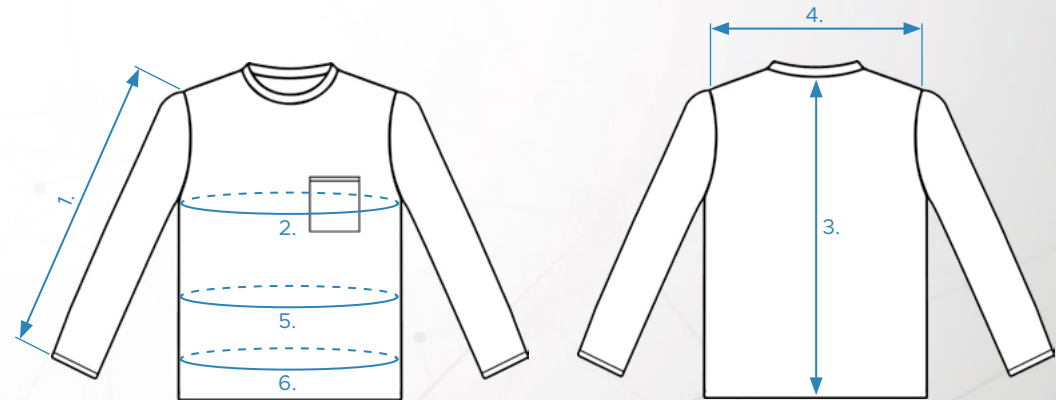
1. Sleeve
2. Chest
3. Length
4. Shoulder
5. Waist
6. Hip



LKO/F LKZ/F LGO/F LGZ/F
QGO/F QGZ/F

○ DESCRIPTION

1. Sleeve
2. Chest
3. Length
4. Shoulder
5. Waist
6. Hip





D és Tsa Bt.

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