



## Technical data sheet # EPA30E

# Art. 157 KIT STATIC DISSIPATIVE TABLE GROUNDING KIT

### GENERAL

ELME 157 KIT has been designed to provide an effective grounding of the WORKSTATION.

The cuts of the materials are designed to fit in the majority of the workstation sizes. Each mat has a separate ground cord with 1 Mohm resistor, and 5mm metal ring termination.



### FEATURES

- Material: ELME 157 rubber matting, high temperature resistant, double layer
- 157 benchmat size: 400X600, 600x900mm, and 600x1200mm (rounded corners cut)
- Colours available: grey, blue
- The packaging includes the anti-allergenic wristband set, and 1MOhm safety ground cord
- The outer packaging is a plastic flexible tube transparent
- The 157 KITS meet specifications of IEC 61340-5-1:2007 STD.

### 157 BENCHMATS MATERIAL FEATURES

STANDARDS	IEC 61340-5-1, EN 100015, ESDA 2020
MATERIAL	synthetic rubber double layer
STRUCTURE	upper layer: coloured static dissipative bottom layer: black conductive
DRAINAGE OF STATIC CHARGES	The static charge passes through the upper static dissipative layer to the lower conductive layer towards the ground. In this way the drainage of the static charges does not involve any sensitive device on the mat. The black conductive layer ensures effective grounding on all area
LIGHT REFLECTION	19% DIN 5036
FLAMMABILITY	unflammable (DIN 51960)
SAFETY	no noxious gas emission, no halogens contained
HEAT	withstands more than 440°C
MAINTENANCE	use preferably ELME art <b>EPACLEANER</b> . High density for no surface dirt penetration
RESISTANCE TO OIL	resists to most paraffinic and naphthenic oils
CHEMICALS	high resistance to most chemicals (see list)
HUMIDITY	no humidity absorption
GROUNDING	use 1 Mohm resistor on the ground cord
WEIGHT	2,7 Kg/sqm
THICKNESS	2 mm.
ROLLS	1,22 X 10 m
CLEAN ROOM	no particle emission, suitable for clean room usage
HARDNESS	75-80 ShoreA
ABRASION	< 200mm3
STATIC DECAY TIME	5000V to 500V: 0,009 seconds FTM 101C No. 4046 5000V to 50V: 0,034 seconds FTM 101C No. 4046

### ESD FEATURES

SURFACE RESISTANCE	NFPA 99 IEC 61340-5-1 EOS/ESD-S4.1 - 1990 100V EOS/ESD-S4.1 1990 10V	1 x 10**7 - 1 x 10**9 5 x 10**6 - 5 x 10**8 1 x 10**7 - 1 x 10**8 1 x 10**7 - 1 x 10**8
VOLUME RESISTANCE	DIN 51953	5 x 10**6 - 5 x 10**8

RESISTANCE TO GROUND	NFPA 99 IEC 61340-5-1 EOS/ESD-S4.1 - 1990 100V EOS/ESD-S4.1 - 1990 10V	$1 \times 10^{**6}$ - $1 \times 10^{**9}$ $5 \times 10^{**6}$ - $5 \times 10^{**8}$ $5 \times 10^{**6}$ - $5 \times 10^{**7}$ $1 \times 10^{**7}$ - $1 \times 10^{**8}$
CHARGE DECAY	NFPA 99 (da 5000 a 500V)	< 0,05 sec.

## CHEMICAL FEATURES

CHEMICALS CONCENTRATION	EXPOSURE PERIOD		
	2 MIN.	1 HOUR	24 HOURS
ACETIC ACID (5%)	NA	NA	NA
AMMONIA (10%)	NA	NA	NA
SULPHURIC (3%)	NA	NA	NA
NITRIC ACID (10%)	NA	NA	AA
HIDROCLORIC ACID (10%)	NA	NA	AA
SODIUM IDRATE (10%)	NA	NA	AA
SODIUM HYPOCHLORITE (10%)	NA	NA	NA
SODIUM CARBONATED (SAT.)	NA	NA	NA
HYDROGEN PEROXIDE (3%)	NA	NA	NA
ETHYL ACHOOL (50%)	NA	NA	NA
OIL ASTM 1	NA	NA	AA
OIL ASTM 3	NA	NA	AA
PETROLEUM	NA	NA	AA
BLACK PRINTING INK	NA	NA	AA
PERCHLOROETHYLEN	NA	NA	AA, HA
BEER	NA	NA	NA
BUTTER	NA	NA	AA
CITRATE ACID	NA	NA	AA
COCA-COLA	NA	NA	NA
FRUIT JUICE	NA	NA	NA
TEA	NA	NA	NA
COFFEE	NA	NA	AA

NA = NO ALTERATION - AA = APPEARANCE ALTERATION - HA = HARDNESS ALTERATION

## TYPES AVAILABLE

<b>157 KIT 4060 BLUE</b>	Kit with mat 400x600mm, colour light blue	Weight 670gr
<b>157 KIT 4060 GREY</b>	Kit with mat 400x600mm, colour grey	Weight 670gr
<b>157 KIT 4060 BEIGE</b>	Kit with mat 400x600mm, colour beige	Weight 670gr
<b>157 KIT 6090 BLUE</b>	Kit with mat 600x900mm, colour light blue	Weight 1450gr
<b>157 KIT 6090 GREY</b>	Kit with mat 600x900mm, colour grey	Weight 1450gr
<b>157 KIT 6090 BEIGE</b>	Kit with mat 600x900mm, colour beige	Weight 1450gr
<b>157 KIT 60120 BLUE</b>	Kit with mat 600x1200mm, colour light blue	Weight 1830gr
<b>157 KIT 60120 GREY</b>	Kit with mat 600x1200mm, colour grey	Weight 1830gr
<b>157 KIT 60120 BEIGE</b>	Kit with mat 600x1200mm, colour beige	Weight 1830gr

The datas shown above are intended only as general indication of the standard production values. The do not refer to specific production lots. The document has no legal value.

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