

ESD MATS & ACCESSORIES SELECTOR

	COMFORT FACTOR (1-5)	WEAR RATING (1-5)	WEAR RATING (1-5)	STATIC DISSIPATIVE OR ANTISTATIC	PAGE
COBASTAT®	3	3	2	✓	59
ESD FLOOR MAT GROUNDING KIT UK	N / A	N / A	N / A	✓	59
COBAELITE® ESD	5	5	4	✓	60
DECKPLATE ANTI-STATIC	5	5	3	✓	61
SENSO DIAL ESD	4	5	3	✓	62
SENSO RUNNER ESD	1	5	3	✓	62
ESD ANTISTATIC DOUBLE LAYER SHEET	1	4	3	✓	63
CONDUCTIVE RUBBER BENCH MATTING	N / A	4	N / A	✓	64
ESD RUBBER BENCH MAT	N / A	4	N / A	✓	64
ESD BENCH MAT GROUNDING KIT UK	N / A	N / A	N / A	✓	64
ESD RUBBER FLOOR MAT	1	4	3	✓	65
CONDUCTIVE NEOPRENE BENCH/FLOOR MAT	1	4	3	✓	65

KEY

COMFORT FACTOR (1-5)



WEAR RATING (1-5)



SLIP RATING (1-5)



A GUIDE TO ESD PROTECTION

Electrostatic Discharge (ESD) can cause serious issues in automotive manufacturing, potentially damaging electrical components, or detonating airbags. Floors, clothing, and packaging can all create static electricity, which when released becomes known as Electrostatic Discharge. We have a comprehensive range of industry tested ESD floor mats and accessories to protect your valuable components against the harmful effects of static electricity.

ESD EXPLAINED

Electrostatic Discharge (or ESD) is the sudden release of electricity between two electrically charged objects, commonly referred to as static electricity.

An effective solution is static-dissipative floor or work bench matting (ESD matting) which has conductive properties to draw the electric current away from the component.

For ultimate protection, they are used in conjunction with specialist ESD accessories such as heel grounders, wristbands and cords.

ESD FLOOR MAT SAFETY

Choose the appropriate floor mat(1) for your workbench in line with resistance requirements. Electrical resistance is measured in ohms or shown as this symbol Ω .

Resistance Ω	Type	Function
10^3 to 10^5	Conductive	No initial charge. Provides path for charge to bleed off.
10^5 to 10^9	Dissipative	No or low initial charge. Prevents discharge to or from human contact.
10^9 to 10^{12}	Anti-Static	Initial charges are suppressed.
$> 10^{13}$	Insulative	Insulators and base polymers. Not ESD.

Operatives are advised to use two heel grounders(2), featuring a grounding tab to be used in the shoe, under the foot. Having chosen the appropriate floor mat, ensure you have a compatible floor mat grounding wire(3) to connect the earth bonding plug(4) to the mat.

ESD WORKBENCH SAFETY

Choose the appropriate mat for your workbench(5) in line with resistance requirements. ESD wristbands(6) are recommended to ground the operator when working with electronic components.

The fabric bands feature silver monofilaments for conductivity. They are designed to be fitted to a coiled grounding cord(7) and used in conjunction with a compliant earth bonding plug(8). A common point grounding wire connects the plug to the mat.

IT IS CRITICAL NOT TO CONFUSE STATIC-DISSIPATIVE (ESD) MATTING WITH 'ANTI-STATIC' OR 'ELECTRICAL SWITCHBOARD MATTING'.

