

QuantX™ ESD Safe Dispense Components

QuantX™ ESD Safe dispense components are designed for maintaining an accurate and repeatable dispense process within an ESD Safe production environment.

A special additive is used in the manufacturing process to prevent the products from generating an electrostatic charge when dispensing fluid materials used in the production of electronic devices.

The prevention of an electrostatic charge being generated, reduces the risk of a sensitive electronic component (e.g. semiconductor) on a PCB from being damaged due to an Electrostatic Discharge (ESD) event; minimizing costly rejects.



Features

- Surface resistance $< 1 \times 10^6$
- Static decay rate < 2 seconds
- High conductivity
- Manufactured from virgin material
- Manufactured and assembled in a silicone-free facility

Benefits

- Meets industry standard requirements for use in ESD safe environments
- Tested for industrial use up to dispense pressures of 100psi
- Same accurate dispense performance as our standard QuantX™ dispense components

What is ESD?

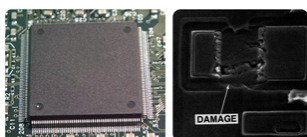
When two surfaces come into contact and separate, electrons move or can be given up to the other surface, causing an imbalance and thus an electrostatic charge is generated.

If two items are at different electrostatic charge levels, as they approach one another, a spark or Electrostatic Discharge (ESD) can occur. This rapid transfer of electrostatic charge can generate heat and melt circuitry in electronic components, causing a component failure.

Why worry about ESD?

Electrostatic Discharge (ESD) can damage sensitive electronic components, resulting in failures, reduced reliability, or latent component failures in the field.

While it is difficult to attribute specific failures to ESD damage, it is common for companies to prevent possible damage and reliability problems by storing, assembling and handling equipment under electrostatic safe conditions.



An electronic device "chip" internally damaged due to a static spark causing an ESD failure.



Item Number

ESD-WSK-US
ESD-WSK-EU
ESD-WSK-UK

QuantX™ ESD Safe Syringe Barrels

Size	ESD SAFE Black
3cc	8501001
5cc	8501002
10cc	8501003
30cc	8501004
55cc	8501005



QuantX™ Pistons

Size	Smooth Flow Green	Flat Wall Blue	Low Viscosity Orange	Unlubricated Black	Lubricated Black
3cc	8001006	8001010	8001506	8001510	8001514
5cc	8001007	8001011	8001507	8001511	8001515
10cc	8001008	8001012	8001508	8001512	8001516
30/55cc	8001009	8001013	8001509	8001513	8001517

QuantX™ ESD Safe Single Tapered Dispense Tips

Gauge	ESD SAFE Black
16	8501270
18	8501271
20	8501272
25	8501274
27	8501298
30	8501276



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QuantX™ ESD Safe Adapter Assemblies

Gauge	ESD SAFE - 6ft
3cc	8501018
5cc	8501019
10cc	8501020
30/55cc	8501021

