

ArcRod



ArcRods are the single most effective passive static eliminator on the market, not to mention the most cost-effective.

Static electricity causes many problems in manufacturing – handling, printing, coating, laminating and other processes can be affected by it, resulting in reject, and costing your company money.

What are ArcRods?

ArcRods are semi-flexible carbon rods, covered in a polyester sleeve through which tiny stainless steel fibres are woven. Static electricity will “wick up” the tiny fibres to earth – safely, conveniently and using no power or operator time.

How are they supplied?

ArcRods come in pre-cut lengths to suit your production line. Alternatively we can supply them at a substantial discount in an 11m coil, allowing you to easily cut them to suit.

How are they used?

ArcRods should be mounted approximately 5mm away from the substrate to be treated, with an air gap on the other side. The **ArcRod** should be earthed at one end (usually to the host equipment). As the substrate moves into range, or comes into contact with the **ArcRod**, the static is instantly removed, allowing the process to continue, unaffected by the unpredictable effects of static electricity.

How do they work?

ArcRods are an induction static eliminator. This means that it causes the natural static field on the surface to induce to the many points along its surface. The static voltage pressure increases at these tiny points, causing efficient ionisation of the air and carrying the charge way from the substrate to ground. It is the voltage that pushes the charge to ionise.

The discharge is controlled and efficient. There is no spark because of the configuration of the points. With conductive wire, there would be uncontrolled discharge to its surface which would ignite solvent vapour. The conductive, microscopic sized points of an **ArcRod** prevent the voltage level from reaching a high enough potential to discharge and carry the charge to ground much faster than the potential can build.

How effective are they?

The more charge presented, the faster the speed, the easier it ionises to the points. This means that at high levels and high speed, **ArcRods** can be further from the web and still be effective.

ArcRods have been shown to be more effective than active (powered) corona discharge bars.

How long do they last?

As they are designed to be used off contact, their static dissipating abilities remain effective almost indefinitely in a clean area.