



Cool Ion Surface Modification System

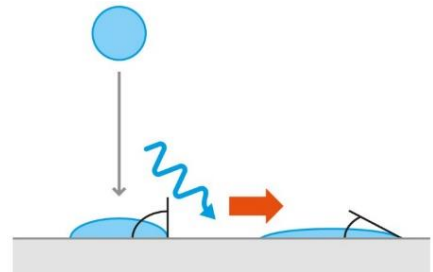
- UV-O₃ Ultraviolet Ozone Surface Treatment
 - CI-20: Atmospheric System
 - CI-20N: Inert Gas (Nitrogen-Argon) System
 - Custom sizes and conveyor systems
- Dry Surface Treatment Method Improves Surface Wettability Resulting in Better Bonding and Coating Adhesion
- Ion Bombardment Provides Sub-10° Contact Angle in Less Than 5 Minutes Without Plasma, Flame or Electrostatic Charge
- Ideal for Temperature Sensitive Substrates and Does not Damage Materials
- Inert Gas Environment For Treatment of Parts with Unique Geometries
- Environmentally Friendly and Chemical-free
- PLC Controlled One-Touch Operation
 - Digital Timer with Presets
 - E-Stop Button
- Interlocked drawer for operator safety
 - Removable Tray Size – 11.2" W x 21.7"
- Ozone Exhaust Vent
- 3 Color Indicator Light and Safety Alarms
- Dimensions: 39.5" W x 18.1" L x 14.1" H
- Weight: 48 lbs
- Power Supply: 110/120VAC, 2.7 A

Optional

- Ozone Destruct Systems
- Custom Services and Equipment:
 - Gas Purge and Material Handling Conveyors
 - Process Development, Optimization and Testing

How does Cool Ion Bombardment modify a surface to improve wettability and adhesion?

High-energy UV photons modify substrate surfaces on a molecular level and break up molecular organic bonds at and on surfaces. It also leads to the introduction of functional groups such as hydroxyl, carbonyl or carboxyl groups which increases the surface energy of a surface which improves both wettability and adhesion. The UV oxidation process also cleans the surface of organic contaminants.



Contact Us For Sample Materials Testing

Every application and substrate is different and unique. Full Spectrum Technologies offers material testing for proof of concept trial, surface modification process development and optimization.