## Functional Coatings

Conformity over complex 3D surfaces

### OPTICAL PROPERTIES
- photoluminescent coatings
- antireflective coatings
- photochromatic coatings

### STRUCTURAL PROPERTIES
- hard coatings
- anti-abrasion coatings
- anti-corrosion coatings

### ELECTRICAL PROPERTIES
- antistatic coatings
- conductive coatings
- dielectric coatings

### BIOENGINEERED PROPERTIES
- anti-microbial coatings
- biocompatible coatings
- bone compatible coatings

### THERMAL PROPERTIES
- heat resistant coatings
- thermal interface coatings
- intumescent coatings

### PHYSICO-CHEMICAL PROPERTIES
- photocatalytic coatings
- hydrophilic coatings
- hydrophobic coatings

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Why CVD?

Chemical vapor deposition (CVD) is a thin film deposition technology that provides uniform, dense, high purity coatings with excellent step coverage and conformity over complex 3D surfaces. CVD reaction parameters allow for control of the coating composition, crystallinity, defect density, and internal stresses.

Coatings Deposited by Chemical Vapor Deposition
Enhance a Component’s Properties and Characteristics

- Corrosion protection and barrier layers
- Environmental coatings
- Antifouling
- Encapsulation
- Friction/tribology
- Wear resistance
- Aesthetics/cosmetics
- Hydrophobicity/hydrophilicity
- Thermal conductivity/insulation
- Electrical conductivity/insulation
- Catalytic activity
- Photon reflectivity/absorbance
- Shock absorption
- Compressibility
- Mechanical bonding/interlocking
- Surface or contact area
- Fire retardancy
- Biocompatibility

Coatings are often designed to perform multiple functions.

Ever-Improving Performance for Components
Used in a Range of Industries

Functional coatings are under continuous development. CVD Equipment Corporation’s systems are used in many functional coatings applications.

At CVD Equipment Corporation, we design and fabricate many systems for innovators working on next generation process and material development.

Call us at +1 631-981-7081 to discuss a product solution for your project. We can also be reached at sales@cvdequipment.com or visit our website.