Chemical Vapor Infiltration Systems
Advanced process tools for coating the internal surfaces of porous/fibrous materials

Chemical vapor infiltration (CVI) is a chemical vapor deposition (CVD) process that is performed at low pressures to allow for coating the internal surfaces of a porous material. Using heat and low pressure, precursor vapors penetrate the pores / fibers of the material and deposit to form a conformal coating on the internal surfaces.

Our CVI platform is used to coat the internal surfaces of porous materials having complex shapes and geometries. Multiple systems are in production for coating biocompatible porous material used in medical implants and aerospace components.

powered by **CVDWinPrC™**

Operated through our CVDWinPrC™ process control software, the systems automatically log data and graphically show time-dependent values of user-selected parameters. CVDWinPrC™ also allows users to load preprogrammed recipes, modify, check and create new recipes, and view realtime or saved process data.

Safety Protocols
The systems have application configured safety protocols embedded into relay logic, PLC, and CVDWinPrC™ software.
Images of CVI Coated Materials

CVD Equipment Corporation offers CVD processing systems with support equipment such as gas cabinets and exhaust gas conditioning systems. All major components from one vendor makes component interfacing seamless.

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.