

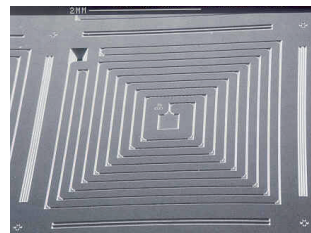
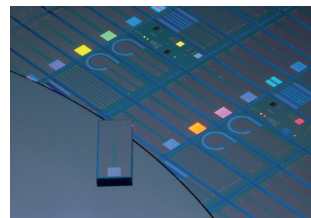
neoDiam™ Coatings in Biomedical applications

*neoDiam™ coatings find
their applications in tomorrow's
high-tech medical devices*

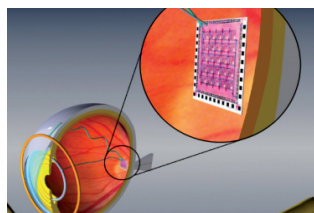
CVD Diamond coatings for high-performance MedTech applications

Diamond coatings for extrabody applications: sensing devices, precision tools, bioMEMS, multielectrode arrays, fonctionnalised diamond surfaces...

- Nanocrystalline diamond coatings for long-life surgery and dental precision tools
- Nanodiamond and multistep manufacturing processes for Lab-on-chip with low binding behaviour vs DNA
- Microscale devices and multi-electrode arrays for sensing and drug delivery
- Selective sensors based on conductive polycrystalline diamond with specific fonctionnalization



Intrabody applications of diamond coatings: prostheses, retinal implants, drug delivery devices, stents...



- High biocompatibility of diamond coatings
- Multilayer diamond coating (micro- and nanocrystalline) for improved sliding of tomorrow's prosthesis
- Prevention of metal ion release with diamond coatings to inhibit fibrous tissue growth
- Conductive diamond-based microelectrodes for innovative retinal prosthesis