

BORON DOPED DIAMOND FOR WATER PURIFICATION

CVD diamond in the form of boron doped diamond (BDD) coatings offer lower erosion rates, longer lifetime, high electrical conductivity and improved signal to noise ratio, due to its wide potential window in aqueous and non-aqueous media, low background current and corrosion stability in chemically aggressive media.

sp3 is a pioneer and leader in CVD diamond coatings.

BDD applications

- Water and wastewater treatment: oxidation of organic contaminants such as Phenols, Benzenes, PFAS
- Water disinfection: ozone production on electrode surface
- Production of strong oxidizers
- Bio-electrochemical
- Electro analytical
- Photochemistry
- Electro-synthesis (e.g. Fluorine gas production)

