

TECHNICAL DATA SHEET

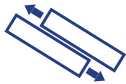
High-tek coating DG4

General notes:

- » This coating is a multi-layer system where there is a DLC taC layer to guarantee a good level of hardness and abrasion resistance and excellent corrosion resistance. In particular, this layer is composed of carbon clusters (sp²-sp³ configuration) which develop an amorphous structure similar to a natural diamond and its related properties. The high-tech process, which combine various technique (magnetron sputtering and PE-CVD) guarantees the deposition of a very compact, smooth and adhered coatings.
- » DG4 coating performs the highest corrosion resistance for carbon steel, making it perfect for the full body coating of cutting tweezers made of Carbon steel.



Hardness (up to 24 GPa) and good elastic modulus (up to 50GPa)
 High adhesion to the metallic substrate
 Full Black homogeneous color
 Low thickness (3-4 microns)
 High elasticity



High wear and abrasion resistance (protects fine tip tweezers from wear)
 No particulate shedding (no contamination of the handled components)



Excellent resistance to chemical products and acid and alkaline solvents
 Extremely high corrosion resistance
 Bio-compatible, no contamination of biological tissue with metal particles, optimal for contact with the human epidermis
 Not compatible with hydrogen peroxide-based solutions
 Alcohol-resistant surface cleaning

Very clean material

NVR (Non Volatile Residue)

0.088 µg/cm²

LPC 0.5 µm (Liquid Particle Count)

7043 counts/cm²

IC (Ion Chromatography)

chloride 0.039 µg/cm²

nitrate not detected

sulfate 0.005 µg/cm²

total anions 0.114 µg/cm²



ESD safe coating

Surface Resistance

10⁹ ohm