

Diamond Coated Tweezers

This coating is composed of carbon clusters which develop a crystal structure similar to a natural diamond and practically detain the same properties of the diamond. The quota of the sp³-configured carbon lies at around 80-95%, which is the reason for the high quota of diamond structure. This high-tech coating is done by a very innovative plasma-assisted deposition technique. Furthermore, due to its procedure, the coating is completely free of hydrogen. During this process a pure diamond film grows directly on the exposed surfaces of the metallic substrate (this is not diamond powder adhesively bonded on the metal surface)

High hardness (up to 80 GPa)	ESD safe coating
High adhesion to the metallic substrate	Static Charge 1.30 Volts
Black colour	Triboelectric Charge 2.30 Volts
Low thickness (2 microns), high elasticity	Surface Resistance 10 ⁶ ohms
	Decay Time 1.10 sec

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

Chemically inert up to 350°C

Bio-compatible (maintain cell integrity, no inflammatory response), no contamination of biological tissue with metal particles

DC tweezers are ideally suited for applications in medical, biological and clean room environments, as well as perfect for handling hard / abrasive materials.

- ✦ DC is Biocompatible (at the tips) for biological application. Stainless steel is not bio-compatible
- ✦ DC coated tips offer high corrosion resistance than standard stainless steel; chemically inert up to 350 degrees C
- ✦ DC prevents particle shedding ; ideal for clean room and for biological applications to prevent contamination

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