ESD Diamond coated tweezers

Anti-Magnetic precision tweezers with ESD diamond coating (resistivity 10E6). The biocompatible coating protects fine tip tweezers from wear, and it has high hardness and high elasticity.

High-tek coating DC (tips only) is available for any Ideal-tek tweezer model. Here you will find our most popular selection:

0.SA.DC
Flat edges with fine tips - OAL 4 3/4" / 120 mm

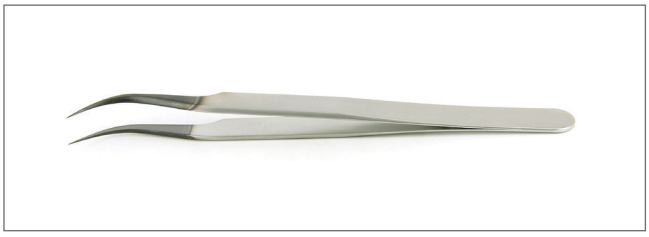
00.SA.DC
Strong, flat edges, thick - OAL 4 3/4" / 120 mm

2A.SA.DC
Flat accurate round tips - OAL 4 3/4" / 120 mm

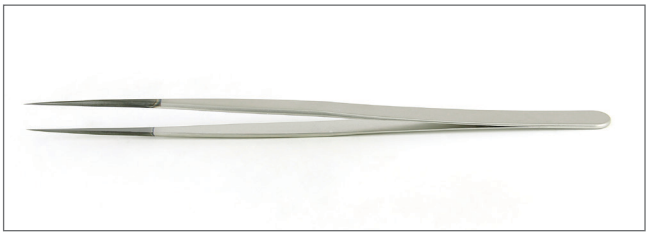
3.SA.DC
Very sharp, fine - OAL 4 3/4" / 120 mm

3C.SA.DC
Very sharp, fine - OAL 4 1/4'' / 110 mm

5.SA.DC
Extra fine tips, superior finish - OAL 4 1/4'' / 110 mm

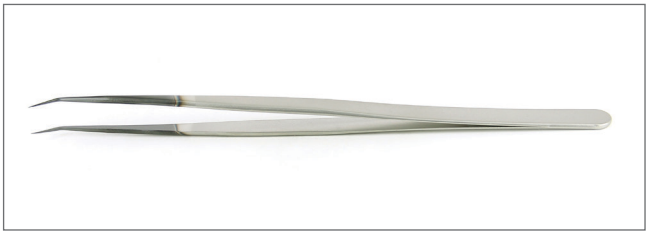


7.SA.DC
Very fine, curved - OAL 4 1/2'' / 115 mm



SS.SA.DC
Extra fine tips - OAL 5 1/2'' / 140 mm

35A.SA.DC
Smooth to hold delicate parts - OAL 4 3/4" / 120 mm



65A.SA.DC
Very fine bent tips - OAL 5 1/2'' / 140 mm

TECHNICAL DATA SHEET

High-tek coating DC

General notes:

» 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)

High adhesion to the metallic substrate

Black colour

Low thickness (2 microns), high elasticity

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

Very clean material	**NVR (Non Volatile Residue)**	*0.088 µg/cm²*
	LPC 0.5 µm (Liquid Particle Count)	*7043 counts/cm²*
	IC (Ion Chromatoghraphy)	*chloride 0.039 µg/cm²*
		nitrate not detected
		sulfate 0.005 µg/cm²
		total anions 0.114 µg/cm²

ESD safe coating

Static Charge	**1.30 Volts**
Triboelectric Charge	**2.30 Volts**
Surface Resistance	**10^6 ohms**
Decay Time	**1.10 sec**