

Diamond Like Carbon coating

2 kinds of DLCs available for application

DLC coating provides longer tool life, improved yield rate, wear properties and aluminum welding prevention

Features

Hardness : First-class (HV6,000)

Deposition temperature ~ 150°C : Work available on plastic

Coating thickness : According to requirement (0.005 ~ 2μm)

High adhesion : Unique cleaning method and special sub-layer



Specifications

Type	ta-C	CN
Hardness [HV]	6,000	2,000-3,000
Friction Coefficient	0.1-0.2	-
Thickness [μm]	0.005-2 [Standard : 1 μm]	~ 1
Electric resistance [Ω/□]	1.5 × 10 ⁶	0.02
Roughness [μm]	<0.019	-
Heat resistance	<500°C	<500°C
Color	Dark-Gray	Dark-Gray
Coating area [mm]	Φ600×H600	
Treatment temperature	<150°C	

First-class



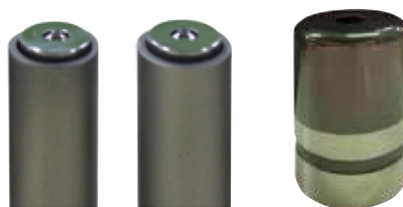
Treatment examples

Cutting tools



Carbide endmill

Dies



Punches for electrical contact

Drawing die

Others



Sliding parts

- In-house production tools
- Resin conductive pad
- DRAM memory test tool