



KINTEK SOLUTION

## Cvd Materials Catalog

Contact us for more catalogs of **Sample Preparation, Thermal Equipment, Lab Consumables & Materials, Bio-Chem Equipment, etc...**

# KINTEK SOLUTION

## COMPANY PROFILE

### >>> About Us

Kintek Solution Ltd is one technology orientated organization, team members are devoted to probing the most efficient and reliable technology and innovations in the scientific researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vacuum creating, refrigerating, as well as pharmaceutical and petroleum extracting equipment.

In the past 20 years, we earned rich experiences in this researching equipment field, we are capable to supply both the equipment and solution according to customer's needs and realities, we have also developed lots of customer tailored equipment according to a specific working purpose, and we have lots of successful projects in many universities and institutes from different countries, like Asia, Europe, North and South America, Australia and New Zealand, Middle East, and Africa.

Profession, quick response, hard working, and sincerity is a remarkable label of our team members working attitude, which earn us a sound reputation among our clients.

We are here and ready to service our clients from different countries and regions, and share the most efficient and reliable technology together!



# Cvd Diamond For Dressing Tools

Item Number: cvdm-01



## Introduction

Experience the Unbeatable Performance of CVD Diamond Dresser Blanks: High Thermal Conductivity, Exceptional Wear Resistance, and Orientation Independence.

[Learn More](#)

THICKNESS	WIDTH	LENGTH
0.3	0.3	3.0
0.4	0.4	2.0
0.4	0.4	3.0
0.4	0.4	5.0
0.5	0.5	2.0
0.5	0.5	3.0
0.5	0.5	5.0
0.6	0.6	2.0
0.6	0.6	3.0
0.6	0.6	5.0
0.8	0.8	0.8
0.8	0.8	1.5
0.8	0.8	3.0
0.8	0.8	4.0
0.8	0.8	5.0
1.0	1.0	1.0
1.0	1.0	3.0
1.0	1.0	4.0
1.0	1.0	5.0
1.5	1.5	1.5
1.5	1.5	3.0
1.5	3.0	3.0
1.5	3.0	3.5
1.5	3.0	4.0
1.5	4.0	4.0
1.8	1.8	1.8

1.8	3.0	3.5
1.8	3.5	3.5

# Cvd Diamond For Thermal Management

Item Number: cvdm-02



## Introduction

CVD diamond for thermal management: High-quality diamond with thermal conductivity up to 2000 W/mK, ideal for heat spreaders, laser diodes, and GaN on Diamond (GOD) applications.

[Learn More](#)

<b>Thermal Grade:</b>	/
<b>Thermal conductivity level:</b>	/
<b>Standard Medium:</b>	>1200W/m.k
<b>High:</b>	>1500W/m.k
<b>Excellent:</b>	>1800W/m.k (up to 2000W/m.k)
<b>Tolerance of Thickness:</b>	±25um
<b>Flatness:</b>	
<b>Density:</b>	3.5g/cm <sup>3</sup>
<b>Young's modulus:</b>	1000-1100GPa
<b>Growth side surface finish:</b>	
<b>Nucleation side surface finish:</b>	
<b>Standard Sizes</b>	
<b>Double sides polished :</b>	Up to diameter 150 mm
<b>As grown thickness:</b>	Between 0.3 mm and 1.5 mm
<b>Polished thickness:</b>	Between 0.2 mm and 1.0 mm

# Cvd Diamond Wire Drawing Die Blanks

Item Number: cvdm-03



## Introduction

CVD diamond wire drawing die blanks: superior hardness, abrasion resistance, and applicability in wire drawing various materials. Ideal for abrasive wear machining applications like graphite processing.

[Learn More](#)

Product Number	Diameter of Inner Circle(mm)	Thickness(mm)
CVDD2010	2.0	1.0
CVDD2512	2.5	1.2
CVDD3015	3.0	1.5
CVDD4020	4.0	2.0

Note: The shapes mentioned above are hexangular.

Special specifications are available on request.

Parameters of properties

Vickers hardness	7000-10000kg/mm <sup>2</sup>
Density	3.51g/cm <sup>3</sup>
Young's modulus	1000-1100GPa
Thermal conductivity	>1000W/m.K
Chemical stability	insoluble in alkali and acid

## Cutting Tool Blanks

Item Number: cvdm-04



### Introduction

CVD Diamond Cutting Tools: Superior Wear Resistance, Low Friction, High Thermal Conductivity for Non-Ferrous Materials, Ceramics, Composites Machining

[Learn More](#)

## Cvd Diamond Coating

Item Number: cvdm-05



### Introduction

CVD Diamond Coating: Superior Thermal Conductivity, Crystal Quality, and Adhesion for Cutting Tools, Friction, and Acoustic Applications

[Learn More](#)

Vickers hardness:	8000-10000mm <sup>2</sup>
Young's Modulus:	1000-1100GPa
Friction Coefficient:	0.05-0.1
Thickness:	
Thickness after polishing:	



## Cvd Diamond Domes

Item Number: cvdm-06



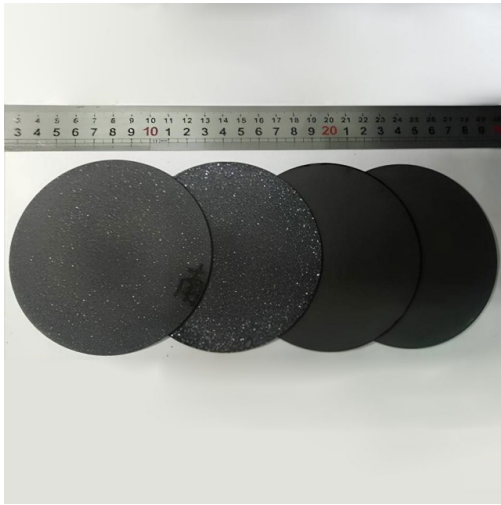
### Introduction

Discover CVD diamond domes, the ultimate solution for high-performance loudspeakers. Made with DC Arc Plasma Jet technology, these domes deliver exceptional sound quality, durability, and power handling.

[Learn More](#)

## Cvd Boron Doped Diamond

Item Number: cvdm-07



### Introduction

CVD boron-doped diamond: A versatile material enabling tailored electrical conductivity, optical transparency, and exceptional thermal properties for applications in electronics, optics, sensing, and quantum technologies.

[Learn More](#)

<b>Available dimension:</b>	Diameter100mm, thickness 0.3-2mm
<b>Boron Concentration [B]:</b>	2 to 6 x 10 <sup>20</sup> Atoms /cm <sup>3</sup> , averaged over 0.16 mm <sup>2</sup>
<b>Bulk Resistivity (Rv):</b>	2 to 1.8 x 10 <sup>-3</sup> Ohm m, ± 0.25 x 10 <sup>-3</sup> Ohm m
<b>Solvent Window:</b>	>3.0V

## Optical Windows

Item Number: cvdm-08



### Introduction

Diamond optical windows: exceptional broad band infrared transparency, excellent thermal conductivity & low scattering in infrared, for high-power IR laser & microwave windows applications.

[Learn More](#)

Diameter:	65mm (F150mm on request)
thickness:	1mm
Flatness:	4um/cm
With higher transparency	
Thickness:	□ 0.3mm
Size:	□ 20 diameter



## Kintek Solution

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