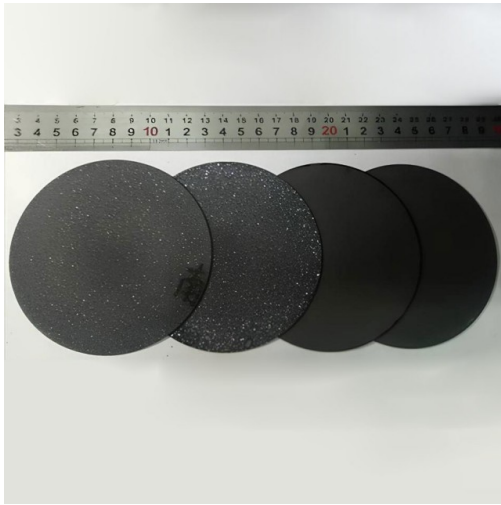


## Laboratory Cvd Boron Doped Diamond Materials

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.

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|                                 |   |
|---------------------------------|---|
| <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   |