Almax PCD

Almax PCD is wear resistant, heat resistant and electrically conductive polycrystalline diamond. With its Silicon binder, it has been developed to have a gain in signal for neutron measurements. The absorption lengths are much lower than PCD material with Cobalt binder.

Almax PCD has been used in multi-anvil presses, as a shielding material (high energy electron attenuation) or as seats for DACs.

Almax PCD is EDM cuttable and available in maximum size of 39mm diameter by 25mm height.

We can supply you PCD cylinders or cubes with truncated corners according to your drawing.

- 90%-95% of 10 µm diamond content with Silicon binder.
- Maximum 39 mm diameter by 25 mm height.
- EDM cuttable

**Technical Specifications:**

<table>
<thead>
<tr>
<th>Composition</th>
<th>90%-95% (V) diamond content</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Silicon and other ceramic binder content</td>
</tr>
<tr>
<td>Diamond grain</td>
<td>10 µm (also available with 3, 5, 7 or 20 µm)</td>
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<tr>
<td>Electric conductivity</td>
<td>EDM cuttable</td>
</tr>
<tr>
<td>Wear resistance</td>
<td>8-10 (x10 000) Wear ratio</td>
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<tr>
<td>Thermal Stability</td>
<td>1,200 °C</td>
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<tr>
<td>Density</td>
<td>3.65-3.70 g/cm²</td>
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<tr>
<td>Stiffness (Elastic Modulus)</td>
<td>850-1,000 GPa</td>
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<tr>
<td>Heat transfer (Thermal conductivity)</td>
<td>400-450 W/mK</td>
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<tr>
<td>Max size</td>
<td>Diameter 39mm x Height 25mm</td>
</tr>
</tbody>
</table>

Specifications subject to change without prior notice. easyLab and Diacell are registered trademarks of Almax easyLab.

Related Accessories:
- (Partial) Perforation
- Patterned anvils
- Repair Service Prototype polishing

Related Products:
- (Partial) Perforation
- Patterned anvils
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