Silicon Wafers

- Totally customized
- Low and medium volumes
- Any diameters from 10 mm to 150 mm
- Any orientations
- Any Thicknesses
- Resistivity from 0.7 mOhm.cm
- TTV < 2 µm
- Roughness < 3 Å RMS
### Silicon Wafers

**Diameter**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>1 inch (25.4mm)</th>
<th>2 inch (50.8mm)</th>
<th>3 inch (76.2mm)</th>
<th>4 inch (100mm)</th>
<th>5 inch (125mm)</th>
<th>6 inch (150mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Further diameters on request</td>
<td></td>
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</tr>
</tbody>
</table>

**Type and dopant**

- N-type: P (Phosphorus), Sb (Antimony), As (Arsenic)
- P-type: B (Boron)
- Undoped

**Resistivity**

- Czochralski (CZ): from 1 mOhm.cm to 150 Ohm.cm
- Float Zone (FZ): up to 10K Ohm.cm

**Orientation**

- **Standard Orientation**
  - (100) (111)
- **Optional Orientation**
  - (211) (311) (411) (511) (711) (911)
  - (110) (210) (310) (510) (910)
  - (531) (731)
- **Accuracy**
  - Standard: ± 0.5°
  - Option: ± 0.01°
- **Off orientation**
  - Up to 40°

**Thickness**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>1 inch</th>
<th>2 inch</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard (µm)</td>
<td>250</td>
<td>275</td>
<td>380</td>
<td>525</td>
<td>625</td>
<td>675</td>
</tr>
<tr>
<td>Accuracy (± µm)</td>
<td>15</td>
<td>25</td>
<td>20</td>
<td>20</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>On request</td>
<td>From 90 µm to 15 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Accuracy</td>
<td>5 µm</td>
<td></td>
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</tbody>
</table>

**Surface**

- As cut
- Lapped
- Etched
- Single Side polished
- Double Side polished

**Additional Specification**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>1 inch</th>
<th>2 inch</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle count</td>
<td>10-25</td>
<td>10-25</td>
<td>10-25</td>
<td>&lt;10</td>
<td>&lt;15</td>
<td>&lt;15</td>
</tr>
<tr>
<td>TTV Std (µm)</td>
<td>&lt;10</td>
<td>&lt;10</td>
<td>&lt;10</td>
<td>&lt;10</td>
<td>&lt;10</td>
<td>&lt;10</td>
</tr>
<tr>
<td>TTV min SSP (µm)</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>TTV min DSP (µm)</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Bow (µm)</td>
<td>&lt;30</td>
<td>&lt;30</td>
<td>&lt;30</td>
<td>&lt;30</td>
<td>&lt;40</td>
<td>&lt;40</td>
</tr>
<tr>
<td>Roughness</td>
<td>On polished surface: &lt;1 nm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flatness</td>
<td>On polished surface: &lt;1 µm</td>
<td></td>
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</tbody>
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