

# Advanced Ceramic Products, LLC

## Fused Quartz Materials

<b>Fusion Process</b>	<b>Electrical</b>
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### Chemical Purity

Trace Element	ppm by weight
<b>Al</b>	<b>8</b>
<b>Ca</b>	<b>0.7</b>
<b>Cr</b>	<b>&lt;0.05</b>
<b>Cu</b>	<b>&lt;0.05</b>
<b>Fe</b>	<b>0.4</b>
<b>K</b>	<b>0.5</b>
<b>Li</b>	<b>0.3</b>
<b>Mg</b>	<b>0.1</b>
<b>Na</b>	<b>0.7</b>
<b>Ti</b>	<b>1.5</b>
<b>OH-</b>	<b>30</b>

### Bubbles

Size in mm	Max # per 1000 cm <sup>3</sup>
<b>Ø &gt; 2 - 10</b>	<b>0</b>
<b>Ø &gt; 1 - 2</b>	<b>0.1</b>
<b>Ø &gt; 0.5 - 1</b>	<b>1</b>
<b>Ø &gt; 0.1 - 0.5</b>	<b>Max 200</b>
<b>Ø 0.1 - 0.5</b>	<b>Max 200</b>

### Inclusions

Size in mm	Max # per 1000 cm <sup>3</sup>
<b>Ø &gt; 2 - 10</b>	<b>0</b>
<b>Ø &gt; 1 - 2</b>	<b>0.066</b>
<b>Ø &gt; 0.5 - 1</b>	<b>0.22</b>
<b>Ø &gt; 0.1 - 0.5</b>	<b>0.22</b>

The information contained in this document is believed to be accurate and reliable, but is presented without guarantee or warranty on the part of Advanced Ceramic Products LLC.

