Spin-on-Glass As-300

<table>
<thead>
<tr>
<th>Elements of Interest</th>
<th>Key Element atoms/cm³</th>
<th>Key Element % in Film</th>
</tr>
</thead>
<tbody>
<tr>
<td>Si, O, As</td>
<td>As, 4E+22</td>
<td>Arsenic</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Viscosity, n (635nm)</th>
<th>Thickness</th>
<th>Shelf Life</th>
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<tbody>
<tr>
<td>1.1 cps, 1.50</td>
<td>Coats 3000 Å at 3000 rpm</td>
<td>20°C 3 months</td>
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<tr>
<td></td>
<td></td>
<td>4°C 9 months</td>
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</tbody>
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**Benefits**
- Highest arsenic doping level
- Uniform coatings
- High purity materials
- Lower melting point than silica alone
- Stable processing independent of flow rates
- Available with impurity specification < 1 ppm range and also available <50 ppb range

**Typical Application**
This is a standard silicate arsenic doped glass very typical for semiconductor applications. Begins curing at about 200°C gives a less dense but solid film. It continues to become increasingly stronger as temperature increases to 650°C or higher. We recommend baking at the highest temperature the substrate will see in any post processing. For doping applications the glass is often removed after drive in.

The arsenic in the glass matrix can act as a diffusion barrier to prevent outgassing of dopant material from the substrate.

**Packaging**
- 240ml
- 500ml
- 1L
- 2.5L
- 4L

**Alternative Products**
As-200

**Alternate Elements to Add**
- Bi
- Sb
- Blends of two or more elements are available
- Other elements available for compound semiconductor use
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