



Desert Silicon LLC.  
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## Spin-on Glass NDG-5500R2

Elements of Interest	Key Element atoms/cm <sup>3</sup>	Key Element % in Film
Si, O	N/A	N/A
<b>Viscosity</b> 1.05 +/- 0.15 cps	Coats 5500Å (550 nm) at 1800 rpm Refractive Index 1.43	<b>Shelf Life</b> 20°C 3 months 4°C 9 months

### Benefits

- Simple method to add thick Oxide layers
- Low temperature approach to silicon oxide layer formation
- Lower Maintenance And Cost Of Ownership
- High purity materials
- Uniform Coatings
- Basic composition that other elements can be easily added to.
- Stable Processing Independent Of Flow Rates

### Typical Application

This is a non-doping glass that is used for coating with a silica film (SiO<sub>2</sub>). When baked at 200°C it gives a low density film that continues to become increasingly dense as bakes continue to 500°C or higher. We recommend baking at least as the highest temperature in the process. The lower density materials can work well for bonding processes.

The silica formed films have high melting points. Other elements can be added to lower the melting point if that is desired. Sometimes elements are added to change the refractive index or other properties.

#### Packaging

- 240ml
- 500ml
- 1 l
- 2.5 l
- 4 l

#### Alternative Products

- NDG-2000
- NDG-5000

#### Alternative Elements

- Pb
- Ge
- Bismuth
- Tin
- Blends of two or more elements
- Other elements available for compound semiconductor use

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### NDG-5500R2 Film Thickness vs Spin Speed



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