Desert Silicon
LIQUID SOURCE SOLUTIONS

Spin-on Glass NDG-800

Elements of Interest	Refractive Index	Dielectric Constant
Si, O	1.45	3.0
Viscosity	**Thickness**	**Shelf Life**
0.90 +/- 0.15 cps	Coats 800 Å (80 nm) at 4000 rpm	20°C 3 months 4°C 9 months

Benefits

- Simple method to add Oxide layers
- Low temperature approach to silicon oxide layer formation
- Lower Maintenance and Cost of Ownership
- 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 (SiO2). When baked at 250°C it gives a low density film that continues to become increasingly dense as bakes continue to 600°C or higher. We recommend baking at least as high or higher than subsequent process temperatures. The lower density materials 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. Can act as a preservative and low index antireflective coating.

Packaging

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

Alternative Products

NDG-1000
NDG-2000
NDG-5000

Alternate Elements

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

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