



Desert Silicon LLC.
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Spin-on Glass NDG-MICRON

Elements of Interest	Design Applications	Refractive Index
Si, O	Small Gap Fill/Thick Film	1.37
Viscosity	Thickness-see spin curve below	Shelf Life
0.90 +/- 0.15 cps	Coats 1.1um (1100nm, 11000Å) at 3000 rpm	20°C 3 months 4°C 9 months

Benefits

- Simple Method to Add Thick Oxide Layers
- Low Temperature Approach to Thick Silicon Oxide Layer Formation
- Lower Maintenance and Cost of Ownership
- High Purity Materials
- Fills Smaller Gaps Than Pure Silicates
- Desert Silicon Can Easily Customize SOG by adding doping elements.
- Stable Processing Independent of Flow Rates
- Uniform Coatings

Typical Application

This is a non-doping glass that is used for coating with a thick silica film (SiO_2). When baked at 200°C it gives a low density film that continues to become increasingly dense as baking continues to 500°C or higher. Lower density materials work well for bonding processes. We recommend baking somewhat higher temp than the highest temperature in subsequent 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 or as dopant sources.

Packaging

- 240ml
- 500ml
- 1 liter
- 4 liter

Alternative Products

NDG-500M
NDG-1000
NDG-2000
NDG-3000
NDG-5000R
NDG-5500R2
NDG-7000R

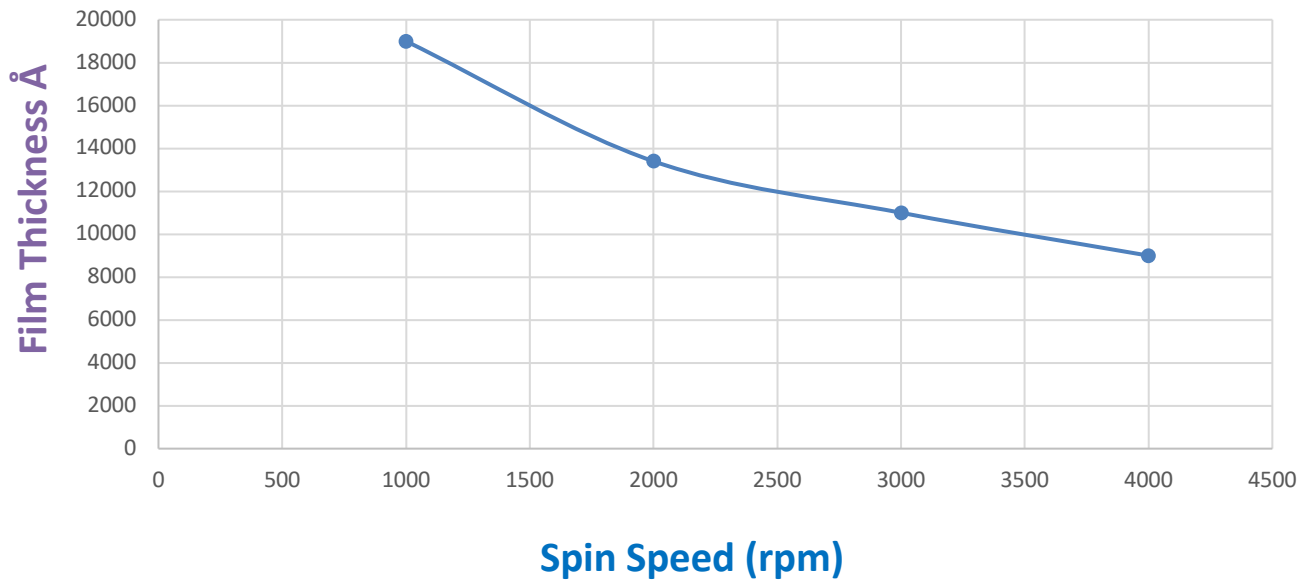
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Spin Speed vs Thickness for NDG-MICRON



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