

<b>Product</b> SOG Ti-1025	<b>Elements of Interest</b> Ti, Si, O	<b>Silicon doped titanium oxide</b>
<b>Refractive Index</b> RI 2.0	<b>Viscosity</b> 0.90 +/- 0.25 cps	<b>Shelf Life</b> 20°C 3 months 4°C 9 months

## Benefits

- Excellent capacitor interlayer dielectric
- Uniform Coatings
- High index for matching optical inputs/outputs or cladding
- Optically transparent coating or light scattering based on processing
- UV absorbing for critical applications

## Typical Application

Silicon doped titanium oxide is of interest for **silicon doping of Ga<sub>2</sub>O<sub>3</sub> semiconductors**. Titanium glass blends are useful for their high dielectric constant and high dielectric strength. This combination is useful in making capacitors in many diverse applications. The higher index is useful for matching to many semiconductor light input or output devices. It can also be utilized, depending on processing, to give a white boundary. They may be used for wafer bonding.

## Packaging

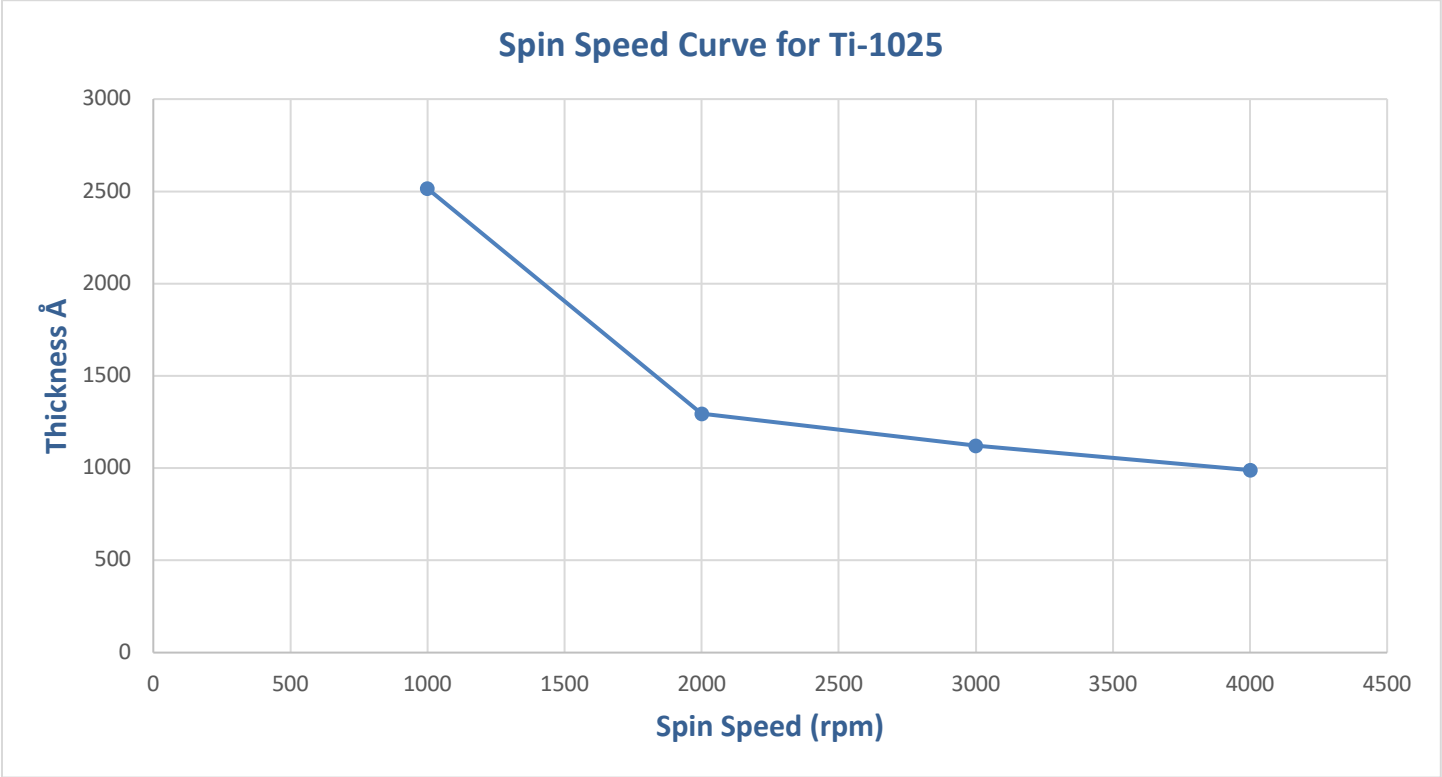
- 240ml
- 500ml
- 1 l
- 4 l Packaging Standard

## Alternative Products

Ti-452  
Ti-100R  
Ti-140R  
Ti-1000  
Ti-1100

## Alternate Elements

- Yttrium, Zirconium, Hafnium or Niobium
- Blends of two or more elements also available.
- Other elements available for compound semiconductor use.



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