Desert Silicon
LIQUID SOURCE SOLUTIONS

Product	Elements of Interest	Key Element percentage
SOG Ti-1000	Ti,O	N/A
Dielectric Constant and RI	**Viscosity**	**Shelf Life**
RI 1.8	0.90 +/- 0.25 cps	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

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 used depending on processing to give a white boundary. They may be used for wafer bonding.

Packaging

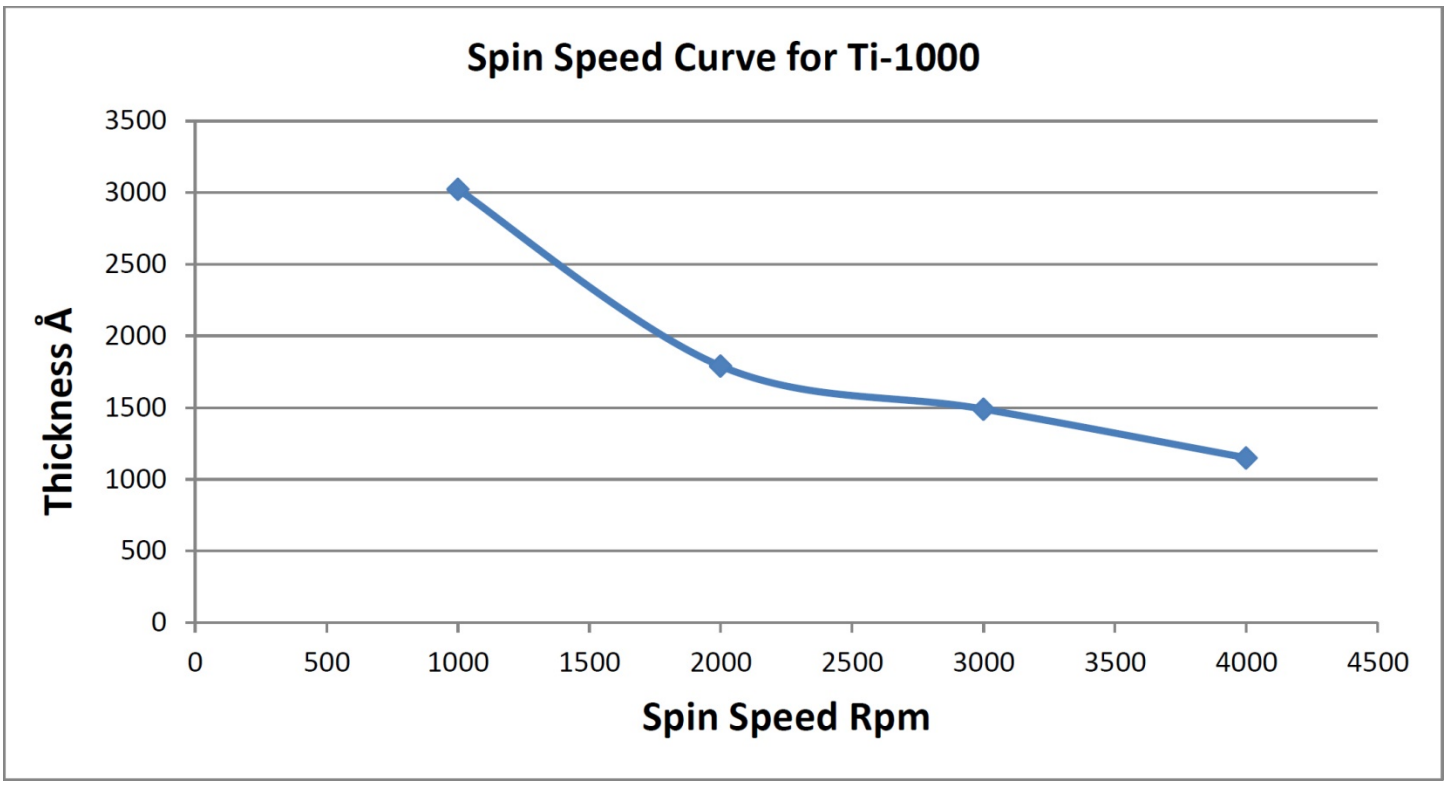
- 240ml
- 500ml
- 1 l
- 4 l Packaging Standard

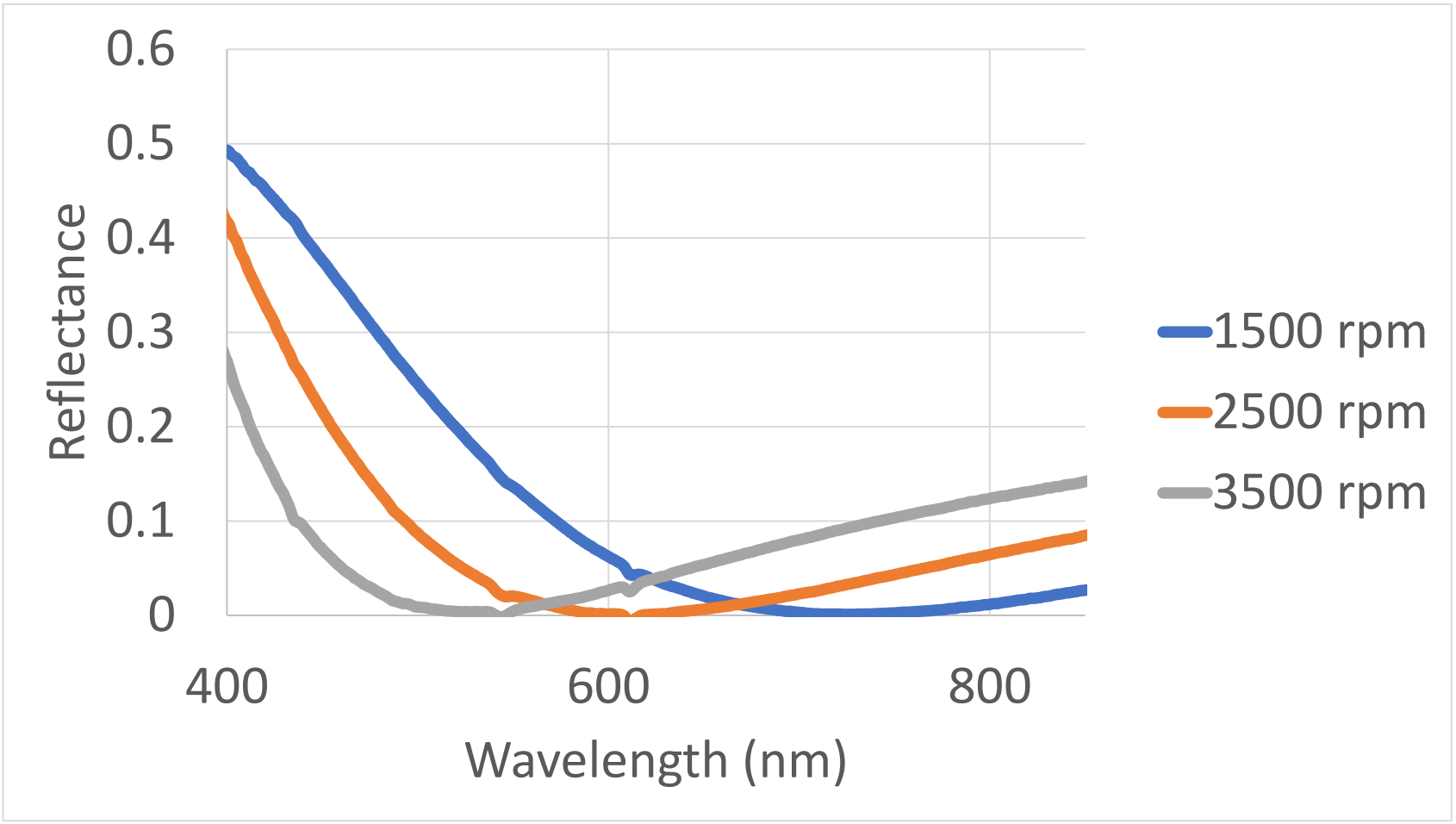
Alternative Products

Ti-452
Ti-100R
Ti-140R

Alternate Elements

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




0.6
0.5
0.4
0.3
0.2
0.1
0
Reflectance
400
600
800
Wavelength (nm)
1500 rpm
2500 rpm
3500 rpm

Spin Speed (r	Measurement 1 (nm)	Measurement 2 (nm)	Measurement 3 (nm)	Average Thickness (nm)	Standard Deviation (nm)
1500	102.8	102.6	102.1	102.5	0.360555128
2500	85.14	85.46	85.51	85.37	0.200748599
3500	73.03	71.25	71.9	72.06	0.900721933