

Opti-Sil™ 592 Technical Data

Academy Precision Materials (APM), an ISO 9002 certified precious metals company, has developed a patent pending, high performance DVD sputtering alloy with exceptional value. Verification of chemistry for all Opti-Sil™ 592 products is accomplished utilizing Inductively Coupled Plasma (ICP) analytical techniques. Each order is shipped with a Certificate of Compliance denoting product conformance. All Opti-Sil™ 592 products undergo strict manufacturing processes to ensure fine uniform grain structure and product conformance. APM manufactures sputtering targets for all major DVD lines and each product follows APM's General Product Standard unless otherwise specified.

Dimensional Tolerances

	<0.250" thickness	>0.250" thickness
Gauge, in.	+/-0.005	+/-0.005
Diameter, in.	+/-0.010	+/-0.010
Flatness, in. per linear foot	0.010	0.010

Physical Composition

Temper: Annealed to soft temper
Grain Size: Uniform fine grain; < 50 microns

Elemental Composition

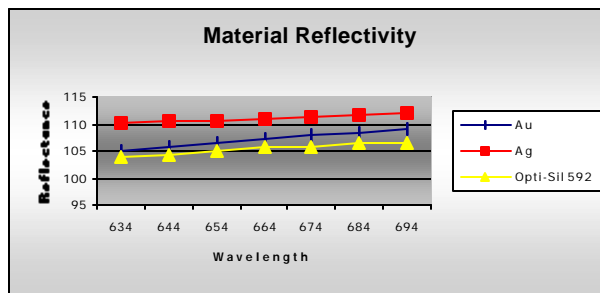
Minimum purity for alloy composition: 99.95%

Product Density

5.403 Troy Ounces/Cubic Inch

Alloy Performance

- 300,000 – 400,000 shots per target for semi-transparent layer (Singulus III)
- 200,000 – 250,000 shots per target for semi-transparent layer (Cubelite)
- Compatible with Silicon and Aluminum



Qualified Bonding Resins

- DIC 698
- DIC 6036
- Sony SK6400
- Vantico XD4761