

Z-808 ZTM, 99.99% Black Tablet: φ8 x 6 mm (substitute for ZrO2+TiO2)

Melting Point 1900°C

Transmission Range 0.3~9 micron

Refractive Index n=2.05 (500~550nm)

Density 4.90 g/cm³ Evaporation Temperature 2500°C Substrate Temperature 175~250°C Rate of Condensation 10~20A°/sec

Recommended Source Water cooled Copper crucible by electron beam gun

This is a new ZrO2+TiO2 oxide mixture metallized material. The normal ZrO2 +TiO2 are ZrO2+TiO2 ceramic direct composition. The difference we produce our ZTM is raw material. We use metal powder as raw material and reduced metal powder into ZrO2+TiO2 oxide material. So the material is metallized. It has following advantage than ceramic ZrO2 and ZrO2+TiO2:

Refractive index steady and melting better. Index is higher. Conductivity is better as we change structure to raise material activation. So the laser damage value is better than ceramic ZrO2 and ZrO2+TiO2. Adhesion is better than single ZrO2 and ZrOx. It is easy to match for lower index materials such as MGF2 and SiO2 to form a dense, hard and high performance optical film.

**Application:** Durable Multi-layers A.R coating with lower index SiO2 and MgF2.

