

Evaporation Materials: Iodides, Nitrides, Sulfides, Selenides, Tellurides

Our evaporation materials are available as granules with size from 1mm, pellets with diameter from 5mm, targets with size up to 1,000mm. They are suitable for both electron- and ion-beam evaporation as well as ion beam sputtering. The parameters in the table below are approximate and depend on the sinter and application conditions.

material	density, g/cm ³ approx.	ranges transmission refractive index	standard size*	price, EUR/kg
ZrI₄ zirconium iodide	4.9		dia 18 x 10mm granules 1-6mm	750
Si₃N₄ silicon nitride	3.4	300nm...4µm 2.18 down to 1.90	dia 18 x 10mm granules 1-6mm	300
Sb₂S₃ antimony trisulfide	4.6	600nm...12.5µm 3.19 down to 2.35	dia 18 x 10mm granules 1-6mm	650
ZnS zinc sulfide	4.1	400nm...15µm 2.55 down to 2.10	dia 18 x 10mm granules 1-6mm	106
ZnSe zinc selenide	5.3	600nm...15µm 2.56 down to 2.36	granules 1-6mm	650
PbTe lead telluride	8.25	4µm...12.5µm 5.98 down to 5.61	granules 1-5mm granules 5-10mm	760

* other forms and sizes are possible as well
recommended crystalline quartz deposition monitors:
- with silver as electrode material (choice 1)
- with gold as electrode material (choice 2)