

Y2O3 99.99% 1.0-3.0mm 500g - 0700996-00500G

Specifications

Coating material	Yttrium oxide
Purity	99.99%
Form	Tablet
Dimensions	1.0 - 3.0 mm
Quantity	500 g
Theoretical density at 20°C in g/cm ³	5.0
Melting point in °C	2410

Temperature at vapor pressure

10 ⁻² mbar in °C	~ 2300
10 ⁻¹ mbar in °C	~ 2700
Boiling point in °C	4300-4440

Type of evaporation

Melting	Possible
Sublimation	Possible

Evaporation source (typically)

E-gun

Liner material

W	Good
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Boat

Boat material

W	Possible
Mo	Good

Specific evaporation conditions

Preparation of base melt (premelt)	Possible
Reactive gas pressure	Good

Substrate temperature range

100 - 200 °C	Good
200 - 300 °C	Good

Film transparency

Low	< 0.25
High	10-12

Film refractive index n / extinction coefficient k

at 550 nm: n	1.78-1.87
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