umicore
Metal Deposition Solutions

ZrO2 99.3% Ø17mm 6g/pcs 500g - 0792771-00500G

Specifications

Coating material	Zirconium dioxide white
Purity	99.3%
Form	Tablet
Dimensions	Ø 17 mm, 6 g/pc
Quantity	500 g
Theoretical density at 20°C in g/cm³	5.6
Melting point in °C	2700-2875

Temperature at vapor pressure

10^{-2} mbar in °C	2400
10^{-1} mbar in °C	2600
Boiling point in °C	4300-5000

Type of evaporation

Melting	Possible
Sublimation	Good

Evaporation source (typically)

E-gun

Boat

Boat material

W	Possible
Mo	Good

Specific evaporation conditions

Preparation of base melt (premelt)	Possible

Reactive gas pressure	Good

Substrate temperature range

< 100 °C	Good
100 - 200 °C	Good
200 - 300 °C	Good

Ion or plasma assistance

possible	Good

Film transparency

Low	0.23
High	7

Film refractive index n / extinction coefficient k

at 550 nm: n	1.92-2.07