umicore
Metal Deposition Solutions

Au 99.99% Ø21x5mm (ca. 33g) - P0481604

Specifications

Coating material	Gold
Purity	99.99%
Form	Disc
Dimensions	Ø 21 x 5 mm, approx. 33 g
Quantity	1 pc
Theoretical density at 20°C in g/cm³	18.9
Melting point in °C	1064

Temperature at vapor pressure

10^{-2} mbar in °C	1400
10^{-1} mbar in °C	1570
Boiling point in °C	2856

Type of evaporation

Melting	Good

Evaporation source (typically)

E-gun

Directly from Cu crucible	Good

Liner material

W	Possible
Mo	Possible
Ta	Good
C	Good

Boat

Boat material

W	Good
Mo	Good

Specific evaporation conditions

Preparation of base melt (premelt)	Good
Low residual pressure	Good

Film refractive index n / extinction coefficient k

at 550 nm: n	0.3-0.4
at 550 nm: k	~ 2.5-2.9
at 10 µm: n	12.24
at 10 µm: k	~ 54.7(~ 9.9 µm)