

Si 99.999% 10-30mm 500g - 0481799

Specifications

Coating material	Silicon
Purity	99.999%
Form	Granulate
Dimensions	10 - 30 mm
Quantity	500 g
Theoretical density at 20°C in g/cm ³	2.3
Melting point in °C	1410

Temperature at vapor pressure

10 ⁻² mbar in °C	1630
10 ⁻¹ mbar in °C	1830
Boiling point in °C	2355

Type of evaporation

Melting	Good
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Evaporation source (typically)

E-gun

Directly from Cu crucible	Good
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Boat

Boat material

W	Possible
Mo	Good

Specific evaporation conditions

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

Substrate temperature range

100 - 200 °C	Good
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Film transparency

Low	1
High	8

Film refractive index n / extinction coefficient k

at 550 nm: n	3.9(1 μm)
at 10 μm: k	3.4(3 μm)