

SiO₂

SiO₂ FOR LOW REFRACTIVE OPTICAL COATINGS

Application

Silicon Dioxide is used for the production of transparent optical thin films. Silicon Oxide layers are transparent, dielectric, wear resistant and have a low refractive index.

Forms of Delivery

granules, tablets, targets

Suggested Evaporation Method

Electron Beam (granules, tablets)
HF-Sputtering (targets)

Typical Analysis (in wt%)

SiO ₂	> 99.99%
Al	<0.0020
Ca	<0.0003
Cr	<0.0001
Cu	<0.0001
Fe	<0.0003
K	<0.0001
Mg	<0.0001
Mn	<0.0001
Ni	<0.0001
Pb	<0.0001
Ti	<0.0003

Physical and optical properties

Melting point:	~ 1700 °C
Theoretical density:	2.65 g/cm ³
Density supplied:	> 99.9 % TD
Refractive index:	1.46
Condition:	molten