

Silicon Dioxide-SiO₂ 、 SiO₂ Rings



1. Material Introduction

In optical films, Silicon dioxide (SiO₂) is a good single-layer anti-reflective film, and it is the most commonly used low-refractive-index film for the deposition of multilayer optical film filters. Silicon dioxide has good adhesion to many substrates of different materials, also has good scratch resistance and stable structure. It is not easy to react with other materials, and is deteriorated, and has the advantages of acid and alkali resistance and corrosion resistance.

2. Technical Parameters

Symbol	SiO ₂
Color/Appearance	Colorless hexagonal crystal
Type	Granules 、 Targets
Melting Point(°C)	1710°C
Refractive Index	1.46 at 500nm
Purity	99.9-99.99%
Density	2.20g/cm ³
Evaporation Source	E-beam
Application	Antireflection(AR) 、 Multilayer films 、 Dielectric coating

3. Field Application

Application Area	Application Component
Anti reflective coating	Camera lens
Cut-off filter	Glasses lens
Anti UV film	