

Magnesium fluoride -MgF2



1. Material Introduction

Magnesium fluoride (MgF₂) is a low refractive index material with stable chemical properties, no decomposition by heating, and no water solubility. It is transparent in the infrared and visible regions. It is mainly used in high-end lenses and high optical requirements, such as filters and monocular camera lenses.

2. Technical Parameters

Symbol	MgF ₂
Color/Appearance	Colorless tetragonal crystal or powder
Type	Granules
Melting Point(°C)	1263°C
Refractive Index	1.38 at 550nm
Purity	99.99%
Density	3.148g/cm ³
Evaporation Source	E-beam
Application	Antireflection(AR) 、 Multilayer films 、 Protective film

3. Field Application

Application Area	Application Component
Optical lens coating	Optical instrument
Cathode ray tube monitor	Monocular camera lens
Ceramic and glass industry	