

## MgF2 Crystals

### (Magnesium Fluoride)

MgF2 is positive uni-axial crystal with a very high optical transmittance from the vacuum UV to IR. It also has a large resistance to mechanical and thermal shock, to optical radiation, and is chemically stable, making it a very useful materials for UV and IR optics.

#### Advantages:

- High optical transmittance from the vacuum ultraviolet to the infrared spectrum region(0.12 ~ 8.5 $\mu$ m).
- Resistant to mechanical and thermal shock, to radiation
- Chemically stable
- A positive birefringent crystal ,used for optical fiber communicationt
- Used for Optical prisms, lenses, wedges, windows, other optical components,and etc

#### HGO' S Standard Products:

Dia $\phi$ or Width W(mm)	Thickness(mm)	Cut axis
<b>A-cut with the maximum birefringence</b>		
$\phi$ 25.4	1.0	[100]
$\phi$ 25.4	2.0	[100]
$\phi$ 25.4	3.0	[100]

φ 25.4	4.0	[100]
φ 25.4	5.0	[100]
W25.4	1.0	[100]
W25.4	2.0	[100]
W25.4	5.0	[100]
<b>C-cut with no birefringence</b>		
φ 25.4	1.0	[001]
φ 25.4	2.0	[001]
φ 25.4	3.0	[001]
φ 25.4	4.0	[001]
φ 25.4	5.0	[001]

**Note:** In addition to these standard parts, HG can also produce a wide variety of custom products round or square shapes upon request.