

Polarizers

Product Information

These kind of polarizers have been developed for demanding lasers separating or blocking S or P polarization.

Applications

- High-Power Laser
- Solid-State Laser
- Gas Laser
- Beam Delivery

Advantages

- Polishing and coating in house
- extensive expertise in material handling
- Strength in coating
- Very good extinction ratio
- Fine polishing with low roughness
- Low Scratch-Dig

Materials

N-BK7, optical glasses, fused silica

Quality Assurance

The following Quality Assurance Equipment is used:

- Bench for extinction ratio measurement



Specifications

| | |
|-----------------------|---|
| Design Wavelength | 350 – 2400 nm |
| Diameter | 12.7 – 25.4 mm up to 300 mm |
| Surface Quality (S-D) | 10 – 5 |
| Surface Flatness | $\lambda/10$ depending on dimension |
| Roughness | < 1 nm RMS |
| Wavefront Distortion | up to $\lambda/10$ |
| Extinction Ratio | up to 1000:1 |
| Angle of Incidence | Standard 45°, other on request |
| Damage Threshold | > 10 J/cm ² @1064 nm, single pulse, 650 ps |
| Coating | Multi-dielectric |

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