

Material: IR grade low-OH fused silica
Spectral transmission: The substrate must transmit at least 92% (10 mm thickness, reflective losses included) for all wavelengths between 400 to 2400 nm.

Homogeneity: Bubble Grade 0, according to DIN 58927
Refractive index variation no more than 4×10^{-6} over the clear aperture.

Diameter: 6.25 +/- 0.01 inches
Clear Aperture: 90 %
Thickness: 0.75 +/- 0.01 inches
Edges: Ground and safety beveled
Wedge angle: 3 arc minutes (+/- 0.5 arc minutes)
High point clearly marked

Surface Quality: 60/40 Scratch/Dig
Surface Accuracy: We would prefer $1/20 \lambda$ peak to valley (at 632.8 nm) over clear aperture.
 $1/10 \lambda$ is also acceptable to cut the cost, if necessary.

Quantity: Option #1: 12
Option #2: 18

Option #1:

Coating on 6 pieces: Color separator coating on one side, no coating on the other side.
The finished pieces should have
> 90% reflectance 400 nm – 950 nm @ 11 degrees AOI
> 90% transmittance 1100 nm – 2400 nm @ 11 degrees AOI

No coating on the other 6 pieces.

Option #2:

Coating on 6 pieces: Color separator coating as in Option #1 on one side, no coating on the other side.

Coating on 6 pieces: AR coating on one side, $R < 0.5 \%$ at 532 nm and 633 nm.
No coating on the other side.

No coating on the remaining 6 pieces.