Optical Achromatic Lens

The Achromatic Lens consists of a positive low-index Crown Glass lens element cemented to a negative high-index Flint Glass lens element. It is designed to cancel chromatic aberration at two wavelengths, eliminating focal length shifts across visible wavelengths.

Product Overview

Precision Achromatic Lens

This achromatic lens is engineered to eliminate chromatic aberration by combining a positive low-index Crown Glass element with a negative high-index Flint Glass element. Designed to provide consistent focal length across visible wavelengths, it effectively minimizes spherical aberration and coma for superior image quality. These lenses are ideal for high-precision applications such as diffraction-limited laser beam focusing, microscopy, and complex imaging systems.

Technical Specifications

Design Wavelengths

- 486.1
- 587.6
- 656.3

Surface Quality & Precision

Parameter	Specification
Diameter Tolerance	+0/-0.05
Center Thickness Tolerance	+/-0.1
Surface Quality	60-40 Scratch/Dig
Surface Figure	0.5-0.2
Centration	< 3 arc min
Chamfer	0.1-0.25 x 45 degrees

Materials	BK7, ZF2