Contrast Enhancement Filters

Product Information

SCHOTT AG is a leading innovator in the field of Contrast Enhancement Filters for display applications.

Contrast enhancement filters selectively transmit the wavelengths of light emitted from the display device and filter out extraneous wavelengths of light, thereby allowing for greater clarity, and in full color displays, true color rendition.

Our monochromatic contrast enhancement filters allow green light transmission, while suppressing other wavelengths, providing optimum view ability of monochrome displays. The full-color filter glasses permit transmission in the red, blue, and green wavelengths while reducing transmission at other intermediate wavelengths. Each of our glasses is developed, melted and finished to exacting customer specification at our state-of-the-art melting facility in Pennsylvania.

Applications

Our filters are utilized with both CRT and flat panel displays, which operate in high ambient light environment. These include:

- Military applications such as military avionics displays
- Industrial display uses such as:
  - Industrial production lines
  - Information
  - Data displays
- Commercial uses such as commercial avionics displays and point of purchase terminals

Materials

Various glass types, such as

- S8801
- S8806A
- S8808
- S8809
- S8802
- S8807
- S8008G

Forms of Supply

Contrast enhancement filters can be supplied as edged, ground and polished substrates.

Specifications

Please contact our sales staff for data sheets containing specifications for each glass type.

Quality Assurance

We inspect all filters to assure exacting quality. The maximum size of permitted inclusions (bubbles, seeds, stones, etc.) is 0.4 mm. We measure inclusions as the average of the maximum length and width (L+W)/2. The sum of the diameters of all inclusions may not exceed twice the diameter of the maximum allowable size per filter.

We inspect our filters for scratches using stringent military specification MIL-O-13830 and 60-40 scratch-dig criteria. No striae may be visible to the unaided eye; all filters meet or exceed the striae grade A requirements of MIL-G-174B.

Maximum strain may not exceed 80 nm/cm, measured as strain-induced birefringence. Each of these glasses has been developed to accept standard conductive and anti-reflection coatings to optimize transmission and reduce glare.

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