



# Technical Data Sheet

## Format Glass Filters

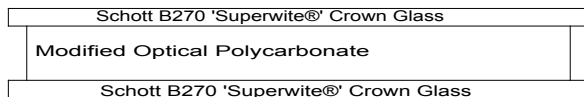
Formatt Filters use the best of physics and chemistry to provide a technically precise product which allows the user to develop their artistic abilities to the full.



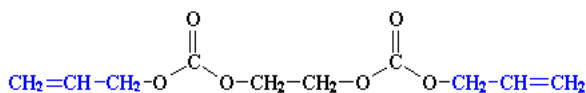
The Formatt glass filter is a precision manufactured composite of the highest quality optical glass with a specially formulated optical polycarbonate. The glass (Schott-Desag

B270) is of World Class optical quality with an exceptionally low Abbe number.

The polycarbonate is a modified CR39® type resin developed to give optical clarity, a refractive index closely matched to the glass, and the ability to adsorb sophisticated synthetic dyes into its molecular structure.

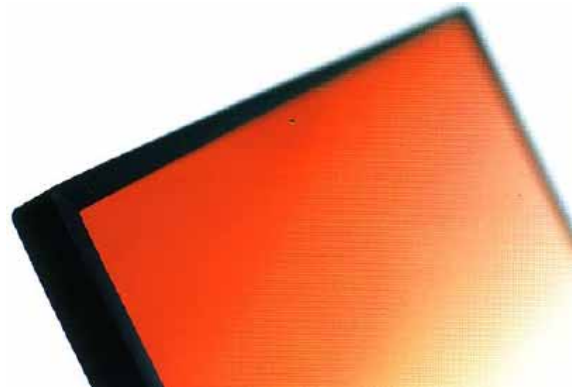


The working end of this arrangement is the polycarbonate.



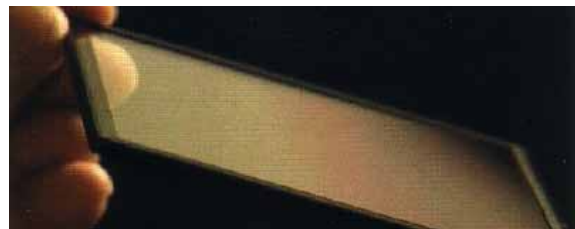
This material contains individual dye molecules between the cross linked resin molecules which adsorb the selected wavelengths of the visible spectrum. The consistent interstitial spacing of the dye molecules ensures an even and controlled adsorption giving a smooth predictable result.

This careful selection of materials and modification of their properties ensures that chromatic dispersion is kept to the absolute minimum, providing the highest level of performance bound only by the laws of physics.



The glass provides the medium to give the superior levels of polishing demanded by modern video and DV work.

Surface finish is critical to ensure a consistent image. Each imperfection can result in a dispersion of the colour components of white light. The use of B270 coupled with the Formatt standard of surface finish reduces this to the physically obtainable minimum.



The use of these two major components and the care taken during manufacture mean that Formatt Filters can be used with perfect confidence in the most demanding of situations.

### Formatt Glass Filters Standards

Formatt glass filters are precision lapped and polished to a nominal thickness of 3.00 mm ± 0.05mm.

Polishing standards are to better than λ/4 over Ø 25mm. (λ = 633nm) International standard for high quality optics.

Each Formatt glass filter is accompanied by its personal certificate of conformance which carries the interferometer image of the polished surface.

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October 2004 PS

In view of our policy of continuous improvement Formatt Filters reserves the right to change methods, materials and specifications without prior consultation.

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