

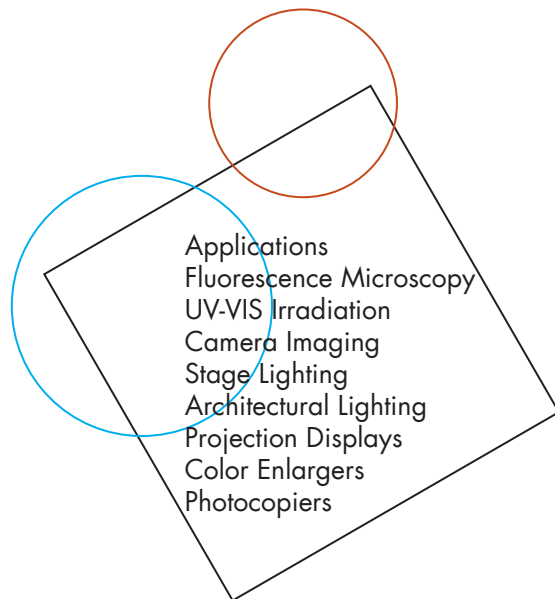
Dichroic Filters



Far more durable than dyed plastic or gel-coated types, dichroic glass filters have a hard dielectric film created by thin layers of metallic oxides. These color separation filters are designed to isolate certain regions of the visible spectrum, reflecting rather than absorbing unwanted frequencies. As a result, they not only produce pure, intense color but also withstand the heat and UV energy from high-energy light sources. Commonly used as light balancing filters in color enlargers and photocopiers, dichroic filters are suitable for any application that requires separating the incident energy into two or more light beams.

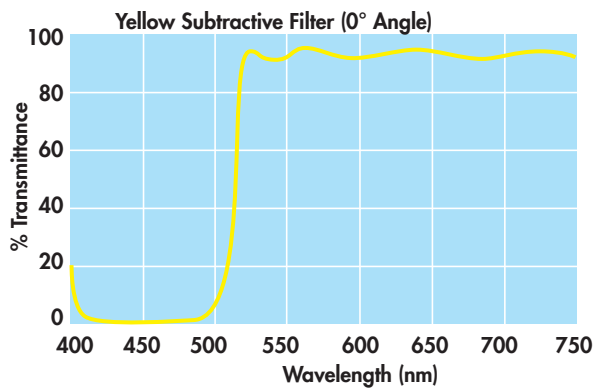
- Provide sharp separation between transmission and reflection
- Spectrally stable at changing temperatures and humidity
- Available in custom designs, colors, angles of incidence, substrates, dimensions, and coatings

General Specifications	
Size Tolerance	+0.0mm/-0.25mm
Thickness	1.0mm ±0.25mm
Min. Clear Aperture	95% of outside dimension
Substrate Material	Soda lime glass
Flatness	3–5 waves per 25mm
Parallelism	3 arc minutes or better
Surface Quality	80/50 per MIL-C-48497A
Coating Quality	40/20 per MIL-C-48497A
Humidity and Abrasion	Per MIL-C-48497A
Max. Operating Temperature	+200°C
Note: While the spectral curves are shown at normal incidence, many applications such as combining colors may require the reflecting mode at a 45° degree of incidence.	

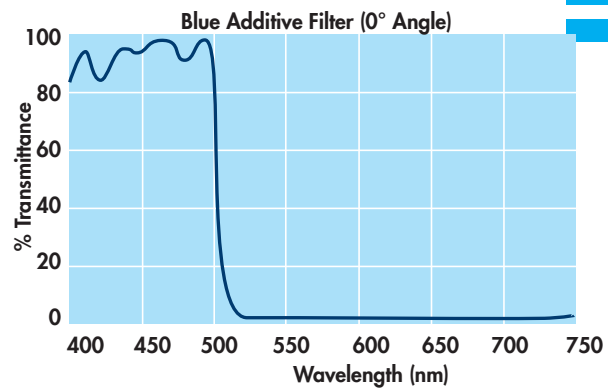


Color	Type	Size, Shape & Part Number		
		25mm Ø ○	50mm Ø ○	50mm SQ □
Yellow	Subtractive	520FD22-25	520FD22-50	520FD22-50S
Magenta	Subtractive	550FD26-25	550FD26-50	550FD26-50S
Cyan	Subtractive	590FD24-25	590FD24-50	590FD24-50S
Blue	Additive	505FD64-25	505FD64-50	505FD64-50S
Green	Additive	540FD66-25	540FD66-50	540FD66-50S
Red	Additive	585FD62-25	585FD62-50	585FD62-50S
Blue	Reflective	475FD68-25	475FD68-50	475FD68-50S
Red	Reflective	580FD70-25	580FD70-50	580FD70-50S

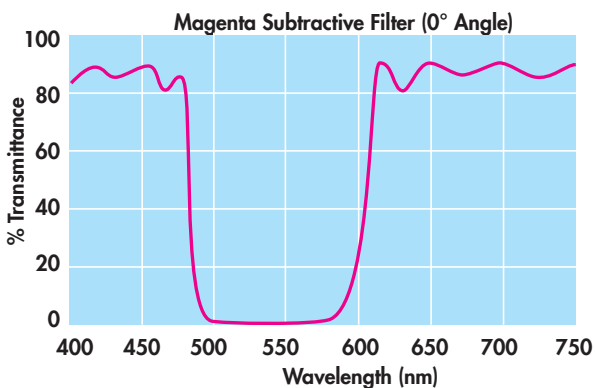
Dichroic Filters



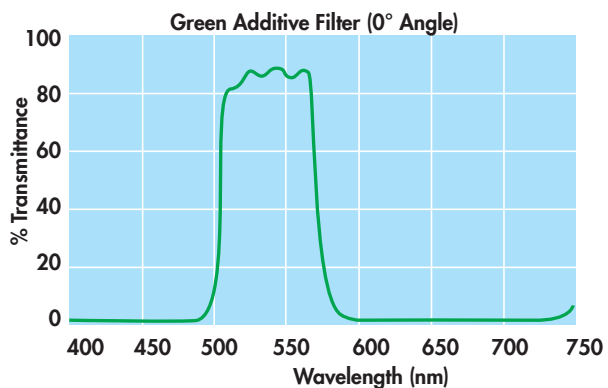
R: 99% Average 410nm–475nm 50% Cut-on 520nm (nominal)
T: 85% Average 550nm–750nm



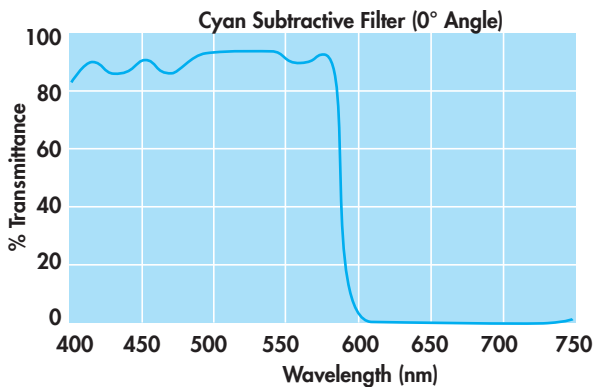
R: 99% Average 540nm–750nm 50% Point 505nm (nominal)
T: 75% Average 390nm–480nm



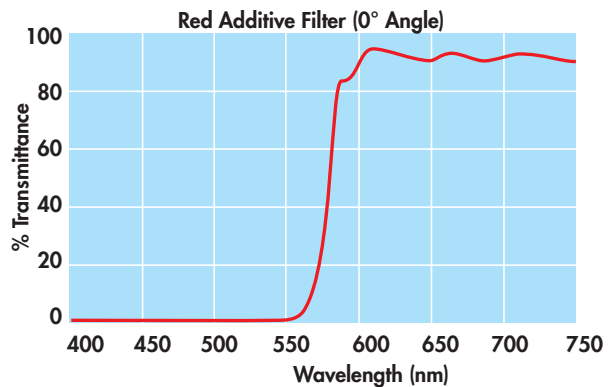
T: 80% Average 380nm–475nm 50% Points 495nm & 605nm
R: 99% Average 535nm–565nm T: 80% Average 650nm–750nm



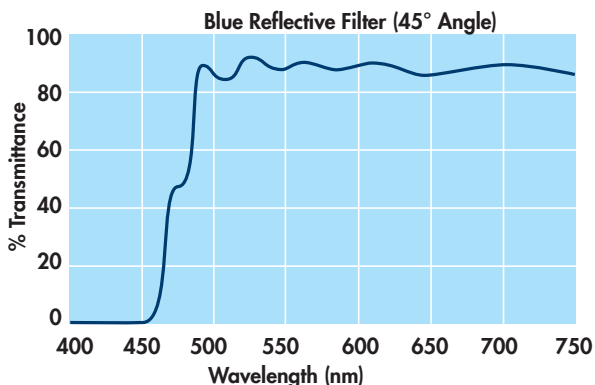
R: 99% Average 380nm–460nm 50% Points 505nm & 575nm (nominal)
T: 70% Min at 540nm R: 99% Average 600nm–730nm



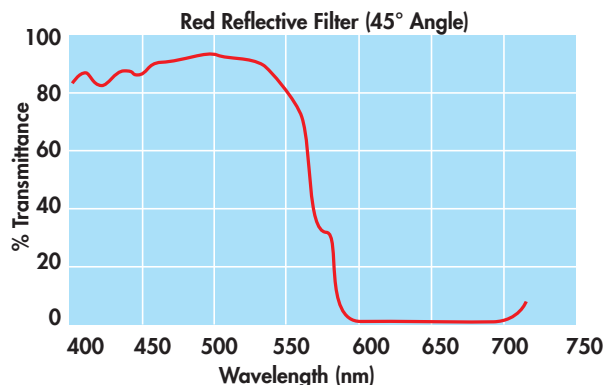
T: 80% Average 400nm–550nm 50% Point 590nm (nominal)
R: 99% Average 640nm–740nm



R: 99% Average 370nm–550nm 50% Point 585nm (nominal)
T: 75% Average 610nm–730nm

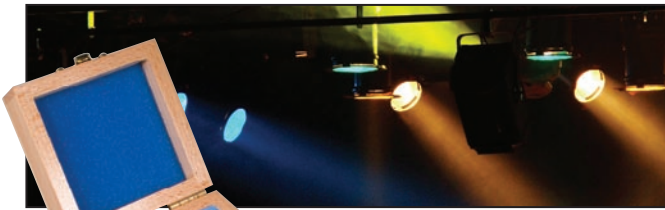


T: 85% Average 525nm–800nm 50% Point 475nm (nominal)
R: 90% Average 380nm–450nm



T: 85% Average 400nm–550nm 50% Point 580nm (nominal)
R: 90% Average 610nm–725nm

Dichroic Filter Sets



8-Piece Set:

Order a Filter Set and save up to 10%!

Excellent for color process work, Andover's dichroic filter sets come in four configurations. Each set is accompanied by complete spectral curve data and shipped in an attractive storage case.

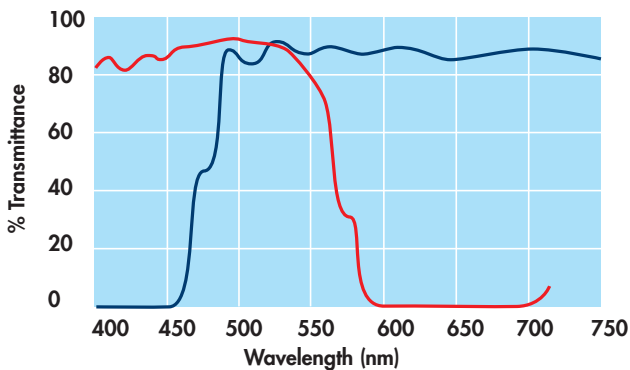
Full Color Processing Set

Combines the additive and subtractive sets with blue and red reflective filters. This versatile set allows you to separate all of the primary colors by either transmission or reflection, and to redirect them to achieve an additive or subtractive effect.

Size, Shape & Part Number		
25mm Ø ○	50mm Ø ○	50mm SQ □
126FA48-25	126FA48-50	126FA48-50S

Reflective Filters

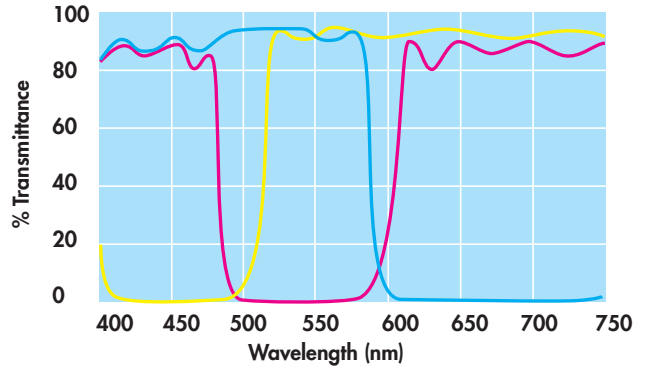
Sold individually or included in the full color processing set.



- Blue**
T: 85% Average 525nm–800nm 50% Point 475nm (nominal)
R: 90% Average 380nm–450nm
- Red**
T: 85% Average 400nm–550nm 50% Point 580nm (nominal)
R: 90% Average 610nm–725nm

Color Subtractive Set

Includes yellow, magenta and cyan filters in your choice of three sizes.

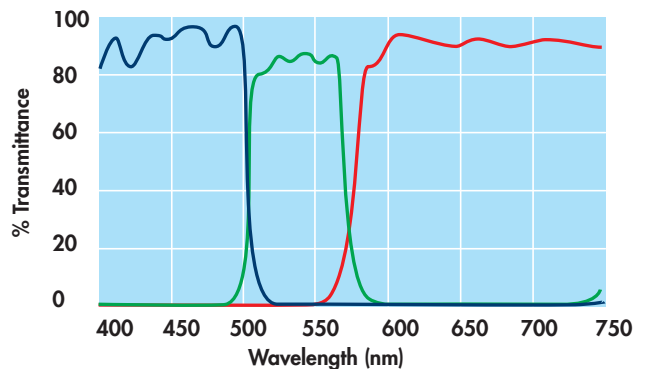


- Yellow**
R: 99% Average 410nm–475nm 50% Cut-on 520nm (nominal)
T: 85% Average 550nm–750nm
- Magenta**
T: 80% Average 380nm–475nm 50% Points 495nm & 605nm
R: 99% Average 535nm–565nm T: 80% Average 650nm–750nm
- Cyan**
T: 80% Average 400nm–550nm 50% Point 590nm (nominal)
R: 99% Average 640nm–740nm

Size, Shape & Part Number		
25mm Ø ○	50mm Ø ○	50mm SQ □
126FA46-25	126FA46-50	126FA44-50S

Color Additive Set

Includes blue, green and red filters in your choice of three sizes.



- Blue**
R: 99% Average 540nm–750nm 50% Point 505nm (nominal)
T: 75% Average 390nm–480nm
- Green**
R: 99% Average 380nm–460nm 50% Points 505nm & 575nm (nominal)
T: 70% Min at 540nm R: 99% Average 600nm–730nm
- Red**
1% Average 370nm–550nm 50% Point 585nm (nominal)
75% Average 610nm–730nm

Size, Shape & Part Number		
25mm Ø ○	50mm Ø ○	50mm SQ □
126FA44-25	126FA44-50	126FA44-50S