



**Gem-A**  
INSTRUMENTS



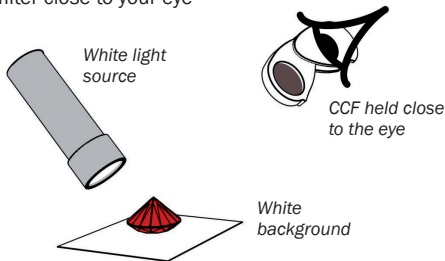
Gem-A Chelsea  
Colour Filter (CCF)

# Gem-A Chelsea Colour Filter (CCF)

## USING THE CHELSEA COLOUR FILTER

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- Place the stone or stones being tested on a sheet of white paper
- Use a bright tungsten light source
- Place the filter close to your eye



## READING THE RESULTS

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Filter tests can be very useful when you are confronted with many stones, particularly if you have packets of small stones to check.

For example, you may have a packet of pale blue stones which could include aquamarine, heat-treated irradiated topaz and cobalt-blue coloured synthetic spinel. Through a Chelsea Colour Filter the aquamarines look greenish-blue to pale blue, the topaz may appear very pale yellowish to 'colourless', while the cobalt-coloured stones look pale pink. This method can help you to detect and remove unwanted stones very rapidly.

Doublets and other composite stones can often be detected rapidly among other similarly-coloured stones in jewellery or in packets of loose stones; under the filter the composite stones usually appear quite different from the other stones.

The Chelsea Colour Filter must be used with caution. New varieties of gemstones, whether natural or synthetic, may show characteristics varying from the results outlined in the table.

## EFFECTS SEEN THROUGH THE CHELSEA COLOUR FILTER

Material under test	View through Chelsea Colour Filter
<b>Green stones</b>	
Demantoid and tsavorite garnet	pink to bright red
Dyed green agate	reddish to pink or green
Emerald – natural or synthetic	bright red or pink to greenish
Green glass	mostly dull green; a few have a reddish tint
Green jadeite	dull green
Jadeite – certain green dyed specimens	may have a red or pink tint
<b>Blue stones</b>	
Aquamarine	greenish-blue
Blue glass (cobalt)	deep red to pink
Blue sapphire – natural and synthetic	mostly dark green
Blue spinel – synthetic (cobalt)	strong red, orange-pink or pink
Blue topaz	yellowish or near colourless
Blue topaz	pale flesh-coloured, or apparently 'colourless'
<b>Red to pink stones</b>	
Garnet – pyrope-almandine	dark greyish to dark red
Red glass	dark red or inert
Red spinel	red
Ruby – natural and synthetic	red to very bright red

## INSTRUCTIONS FOR THE CARE OF YOUR CHELSEA COLOUR FILTER

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This Chelsea Colour Filter has a glass filter. This gives better clarity, reduces distortion and provides better protection from humidity.

To prolong the life of your Chelsea Colour Filter:

- ensure filter is kept clean.
- do not leave the filter under or upon any hot object such as a radiator or lamp or in sunlight.
- do not immerse in liquids
- when the filter is not in use, fold the cover over the filter and place in the plastic bag
- wipe dust from the filter with a soft dry cloth, or use a blower.

These simple instructions will enable you to obtain many years of trouble-free use of the filter.

For more information please contact [instruments@gem-a.com](mailto:instruments@gem-a.com).

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