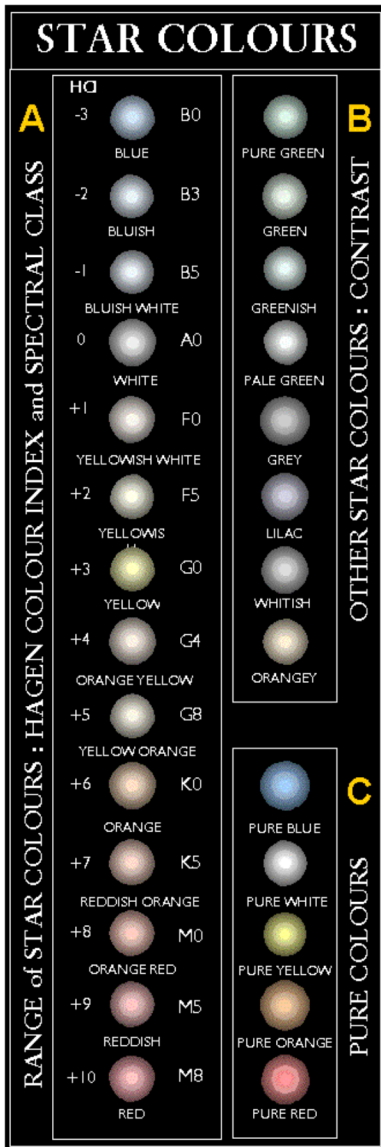


# Hagen Color Index



**A.** The White Box on the left-hand side of the figure above shows the Hagen Color Index Number, the approximate observed apparent color and the Spectral Class it pertains towards.

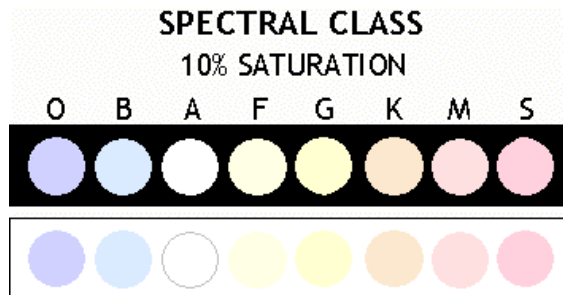
**B.** The White Box on the right-hand side (at the top) is the reported colors sometimes seen by observers. It is labeled as due to Contrast Effects because more often than not they are only seen in visual double stars.

**C.** The White Box on the right-hand side (at the bottom) gives the pure monochromatic colors as they would be seen in a telescope. These of course do not exist in nature and are given only as comparison.

## TEMPERATURE CLASSES

- O = blue**  
(Alnitak)
- B = blue-white**  
(Rigel, Achernar, Agena, Spica)
- A = white**  
(Sirius, Vega, Altair, Deneb)
- F = yellow-white**  
(Canopus, Procyon, Algenib, Wezen)
- G = yellow**  
(Alpha Cen, Capella, Kraz, Mufrid)
- K = orange**  
(Arcturus, Aldebaran, Pollux)
- M = red**  
(Betelgeuse, Antares, Mirach, Proxima Cen)

**S = (mild carbon)** (ZrO) orange-red (R Cyg) – rare



For consistency, stars are described using Brightness, then Hue (as prefaced with Saturation or any Secondary Color), avoiding a subjective “paint store” approach for descriptions.

### (my) Carbon Star Descriptions:

- Very Bright
  - Bright
  - Somewhat Bright
  - Faint
  - Very Faint
- 
- Deep Red (or Rich or Intense Red)
  - Red
  - Pale Red (Reddish-white)
  - Orangey-red
  - Reddish-orange
  - Deep Orange (or Rich or Intense Orange)
  - Orange
  - Pale Orange (Orangey-white)
  - Yellowish-orange
  - Deep Yellow (or Rich or Intense Yellow)
  - Yellow
  - Pale Yellow (Yellowish-white)
- or describe the star as "colorless".

### (my) Other Star Descriptions:

- Green
  - Pale green (Greenish-white)
  - {note: green stars are eyeball artifacts}*
  - Blue
  - Pale blue (Bluish-white)
  - Pale gray
  - White
- or describe the star as "unusual".