

Sapphire

Corundum Species

Color: Blue in various tints; colorless, pink, orange, yellow, green, purple, black
Color of streak: white
Mohs' hardness: 9
Density: 3.95-4.03
Cleavage: None
Crystal system: (Trigonal), doubly prismatic
Crystal shape: hexagonal, prismatic, tabular, rhombohedral
Chemical composition: Al_2O_3 , aluminum oxide
Transparency: transparent to opaque
Refractive index: 1.762-1.768

Double refraction: -0.008
Dispersion: 0.018 (0.011)
Pleochroism: Blue: definite; dark blue, green-blue
Yellow: weak; yellow, light yellow
Green: weak; green-yellow, yellow
Purple: definite; purple, light red
Absorption spectrum: Blue, Sri Lanka, 425, 460, 455, 450, 379 Yellow, 475, 460, 450
Brown, 471, 460-450
Fluorescence: Blue S: none; Colorless L: orange-yellow, violet

The name sapphire (Greek—blue) used to be applied to various stones. In antiquity and as late as the Middle Ages, the name sapphire was understood to mean what is today described as lapis lazuli. Around 1800 it was recognized that sapphire and ruby are gem varieties of corundum. At first only the blue variety was called sapphire, and corundums of other colors (with the exception of red) were given special, misleading names, such as "Oriental peridot" for the green variety and "Oriental topaz" for the yellow type.

Today corundums of gemstone quality of all colors except red are called sapphires. Red varieties are called rubies (page 98). The various colors of sapphire are qualified by description, e.g., green sapphire or yellow sapphire. Colorless sapphire is called *leukos-sapphire* (Greek—white), pinkish orange sapphire *Padparadscha* (Sinhalese for "Lotus Flower").

There is no definite demarcation between ruby and sapphire. Light red, pink, or violet corundums are usually called sapphires, as in this way they have individual values in comparison with other colors. If they were grouped as rubies, they would be stones of inferior quality. The coloring agents in blue sapphire are iron and titanium; and in violet stones, vanadium. A small iron content results in yellow and green tones; chromium produces pink, iron, and vanadium orange tones. The most desired color is a pure cornflower-blue. In artificial incandescent light, some sapphires can appear to be ink-colored or black-blue.

Though heat treatment at temperatures of about 3100-3500 degrees F (1700-1900 degrees C), some cloudy sapphires, nondescript in color, can change to a bright blue permanent color.

Hardness is the same as ruby and also differs chiefly in different directions (an important factor in cutting). There is no fluorescence characteristic for all sapphires.

Inclusions of rutile needles result in a silky sheen, oriented, i.e., aligned, needles cause a six-rayed star sapphire (page 503, no. 2).

1 Sapphire, oval, 9.78ct, Thailand

2 Star sapphire, 9.46ct, Burma

3 Sapphire, brilliant cut, 2.81ct

4 Sapphire, 8 faceted stones, together 2.84ct, Tanzania

5 Sapphire, oval, 1.62ct, Sri Lanka

6 Sapphire, drop, 4.00ct

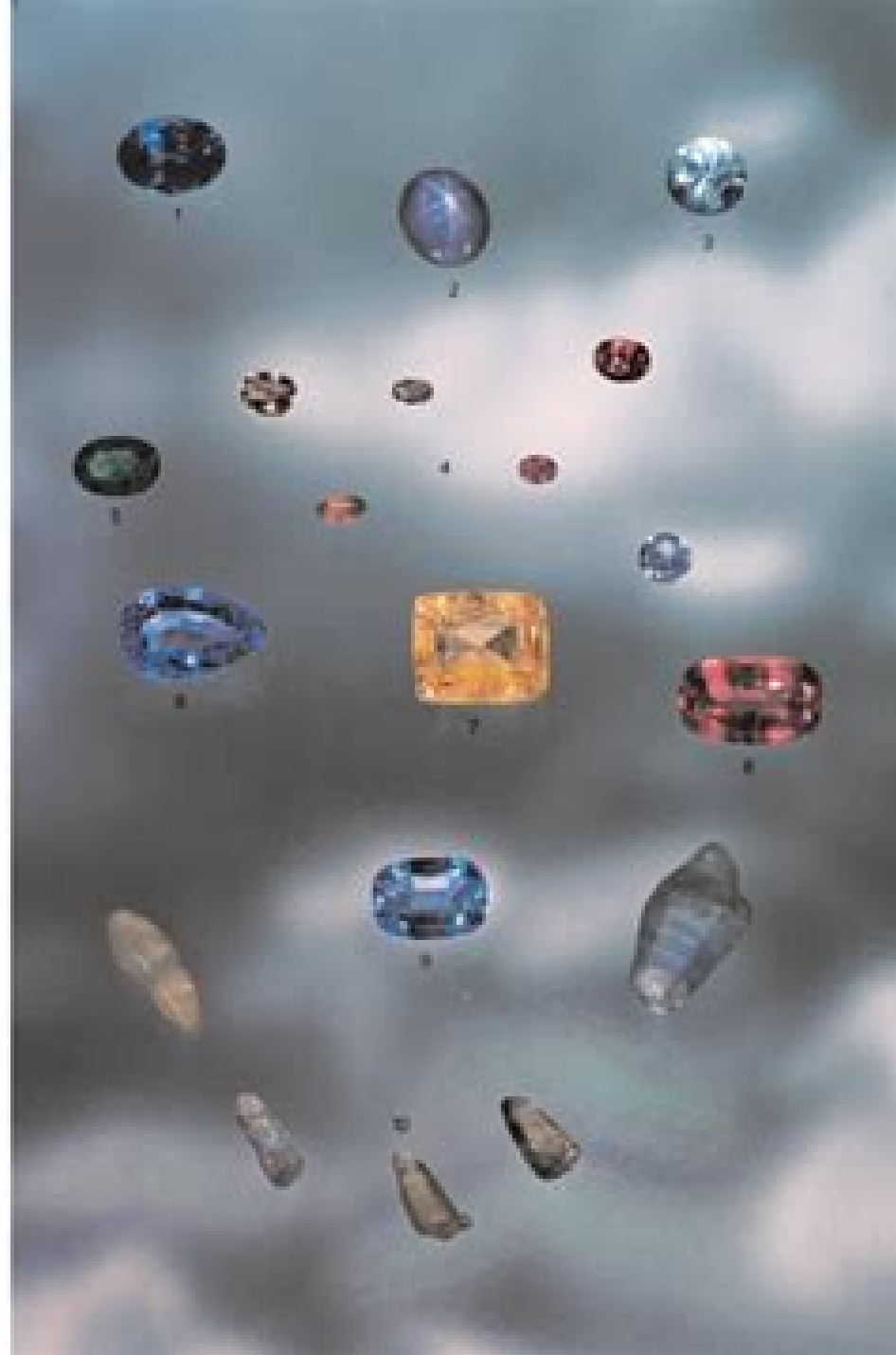
7 Sapphire, yellow, 11.30ct, Sri Lanka

8 Sapphire, antique cut, 5.58ct

9 Sapphire, antique cut, 3.74ct

10 Sapphire, 5-crystal shapes

The illustrations are 50 percent larger than the originals.



Creative Cash Fifth Edition Revised

Barbara L. Ciconte, Jeanne Jacob



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