

AUBERON GEMS INFOGRAPHICS

WELCOME TO THE HOUSE OF

BERYL



EMERALD (GREEN VARIETY OF BERYL)

COLOURED BY: CHROMIUM / VANADIUM (SOMETIMES IRON, MAKING IT SLIGHTLY BLuish GREEN)

NOTABLE SOURCES: COLOMBIA / BRAZIL / ZAMBIA / ZIMBABWE

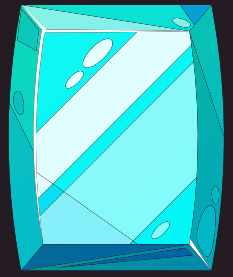
TREATMENT(S): FRACTURE FILLING / COATING / DYEING

AQUAMARINE (BLUE VARIETY OF BERYL)

COLOURED BY: IRON TO IRON INTERVALENCE CHARGE TRANSFER

NOTABLE SOURCES: BRAZIL / CHINA / PAKISTAN / NIGERIA

TREATMENT(S): HEATING

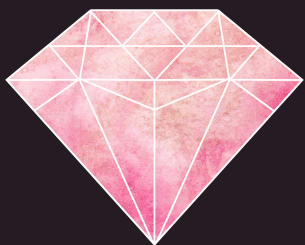


MORGANITE (PINK VARIETY OF BERYL)

COLOURED BY: MANGANESE

NOTABLE SOURCES: BRAZIL / MADAGASCAR / AFGHANISTAN / USA

TREATMENT(S): HEATING / IRRADIATION FOLLOWED BY HEATING

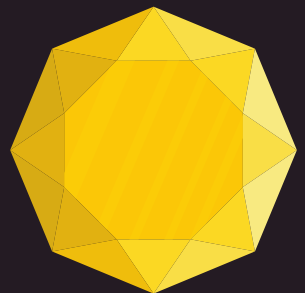


HELIODOR (GOLDEN VARIETY OF BERYL)

COLOURED BY: OXYGEN TO IRON CHARGE TRANSFER

NOTABLE SOURCES: BRAZIL / MADAGASCAR / SRI LANKA

TREATMENT(S): IRRADIATION



RED BERYL (RED VARIETY OF BERYL)

COLOURED BY: MANGANESE

SOURCE: USA (WAH WAH MOUNTAINS, UTAH)

TREATMENT(S): FRACTURE FILLING

*ONLY SOURCE HAS CLOSED



GOSHENITE (COLOURLESS BERYL)

COLOURED BY: NIL (ORIGINAL COLOUR)

NOTABLE SOURCES: BRAZIL / USA / MADAGASCAR

TREATMENT(S): NONE

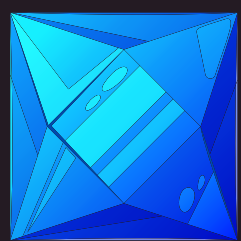


MAXIXE (DARK BLUE BERYL)

COLOURED BY: IRON (COLOUR CENTER, NATURAL IRRADIATION)

NOTABLE SOURCE: BRAZIL

*DARK BLUE COLOUR WILL FADE RAPIDLY UNDER SUNLIGHT, CAN UNDERGO IRRADIATION TREATMENT TO RESTORE THE BLUE (NON PERMANENT TREATMENT)



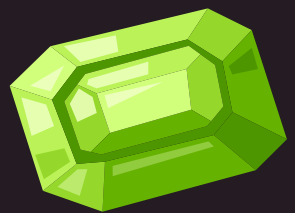
GREEN BERYL (WEAKER TONE / SATURATION)

COLOURED BY: IRON (MAYBE SOME CHROMIUM)

NOTABLE SOURCES: BRAZIL / ZIMBABWE / AUSTRALIA

TREATMENT(S): HEATING (BLUE GREEN) / IRRADIATION (YELLOW GREEN)

*NOT ALL GREEN VARIETIES ARE CLASSIFIED AS EMERALD, WEAK TONE / SATURATION ARE CLASSIFIED AS GREEN BERYL



BERYL (HEXAGONAL CRYSTAL $\text{Be}_3\text{Al}_2\text{Si}_6\text{O}_{18}$)

BERYL IS A MINERAL COMPRISING OF BERYLLIUM ALUMINIUM SILICATE. TRACE ELEMENTS INFLUENCE COLOUR VARIATIONS, GIVING RISE TO ITS MANY VARIETIES.

SOURCES:

CUNNINGHAM J.M. ET AL. (2015). BERYL MINERAL. ENCYCLOPEDIA BRITANNICA.
GIA. (2018). COLORED STONES BOOK 1-5. GEMOLOGICAL INSTITUTE OF AMERICA.

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