

AUBERON GEMS INFOGRAPHICS

WELCOME TO THE HOUSE OF TOURMALINE

*TOURMALINE GROUP SHARES THE SAME CRYSTAL STRUCTURE BUT CONSISTS OF DIFFERENT SPECIES DEFINED BY THEIR CHEMICAL COMPOSITION AND PROPERTIES. GEM RELEVANT SPECIES ARE ELBAITE, DRAVITE, UVITE AND LIDDICOATITE

PARAÍBA TOURMALINE

(ELBAITE SPECIES / VIVID NEON BLUE OR GREEN HUE)

COLOURED BY: COPPER / MANGANESE

NOTABLE SOURCE(S): PARAÍBA, BRAZIL
(*NIGERIA / MOZAMBIQUE)

TREATMENT(S): HEATING / FRACTURE
FILLING



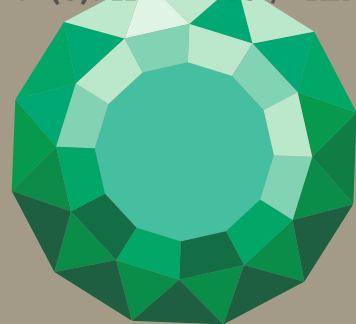
*AFRICA HAS COPPER BEARING TOURMALINES AS WELL BUT NOT ALL IN THE TRADE CLASSIFY THEM AS PARAÍBA

CHROME TOURMALINE

(MIXTURE OF DRAVITE AND UVITE SPECIES / INTENSE GREEN HUE)

COLOURED BY: VANADIUM / CHROMIUM
NOTABLE SOURCE(S): BRAZIL / TANZANIA / KENYA

TREATMENT(S): HEATING / IRRADIATION



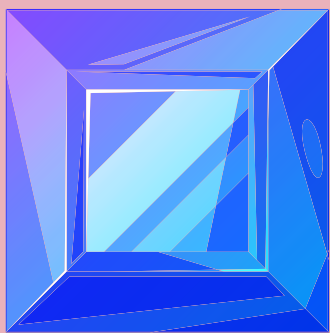
INDICOLITE TOURMALINE

(ELBAITE SPECIES / GENERAL TERM FOR BLUE TOURMALINES)

COLOURED BY: IRON

NOTABLE SOURCE(S): BRAZIL / AFGHANISTAN / RUSSIA / PAKISTAN

TREATMENT(S): HEATING / IRRADIATION



VERDILITE TOURMALINE

(ELBAITE SPECIES / GENERAL TERM FOR GREEN TOURMALINES)

COLOURED BY: IRON / TITANIUM

NOTABLE SOURCE(S): BRAZIL / NIGERIA / MOZAMBIQUE

TREATMENT(S): HEATING / IRRADIATION



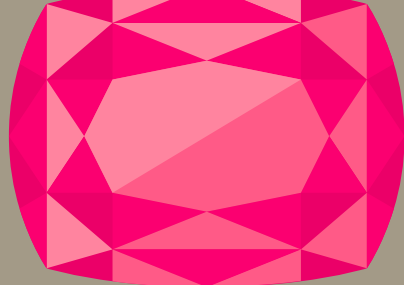
RUBELLITE TOURMALINE

(ELBAITE SPECIES / GENERAL TERM FOR PINK OR RED TOURMALINES)

COLOURED BY: MANGANESE

NOTABLE SOURCE(S): BRAZIL / NIGERIA / AFGHANISTAN / MYANMAR

TREATMENT(S): HEATING / IRRADIATION / FRACTURE FILLING



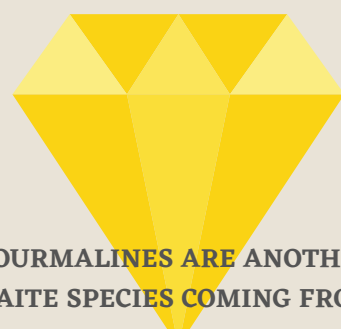
SAVANNAH TOURMALINE

(MIXTURE OF DRAVITE AND UVITE SPECIES / GENERAL TERM FOR YELLOW TOURMALINES)

COLOURED BY: IRON

NOTABLE SOURCE(S): ZAMBIA / MOZAMBIQUE

TREATMENT(S): HEATING / IRRADIATION



*CANARY TOURMALINES ARE ANOTHER POPULAR YELLOW ELBAITE SPECIES COMING FROM MALAWAI

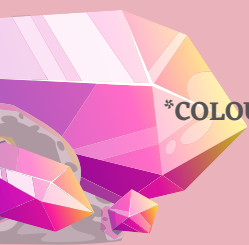
PARTI-COLOUR TOURMALINE

(ELBAITE OR LIDDICOATITE SPECIES)

*COLOUR ZONING CAUSES BI OR TRI-COLOUR TOURMALINES, MOST POPULAR IS MIX OF GREEN AND PINK

NOTABLE SOURCE(S): BRAZIL / NIGERIA / AFGHANISTAN / MADAGASCAR

TREATMENT(S): HEATING



TOURMALINE (TRIGONAL CRYSTAL)

TOURMALINES DISPLAY STRONG PLEOCHROISM DUE TO THEIR DOUBLE REFRACTIVE NATURE. IRRADIATED TOURMALINE MAY LOSE THEIR COLOUR DUE TO BRIGHT LIGHT OR HEAT.

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HOBART, M. K. (2019). TOURMALINE, EARTH'S MOST COLORFUL MINERAL AND GEM MATERIAL. GEOSCIENCE NEWS AND INFORMATION

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