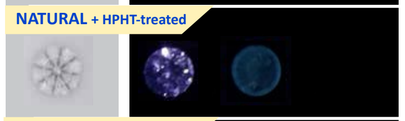
Photo-luminescent (fluorescence and phosphorescence) **reactions for diamonds and simulants**

COLOURLESS

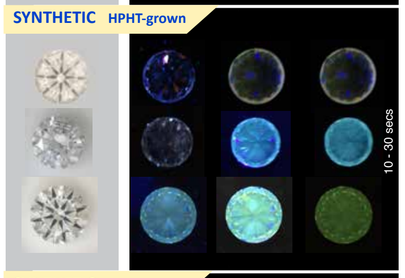
LWUV | SWUV | Phos.

NATURAL DIAMOND

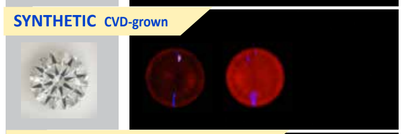
NATURAL + HPHT-treated



SYNTHETIC HPHT-grown



SYNTHETIC CVD-grown



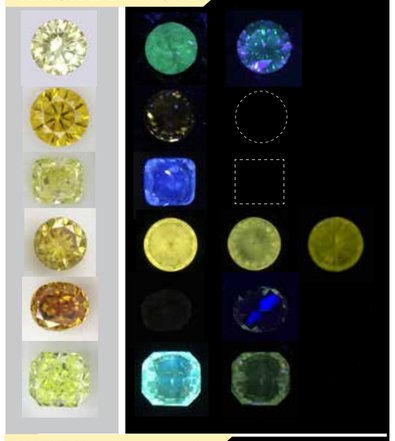
SYNTHETIC CVD-grown + HPHT-treated

CUBIC ZIRCONIA

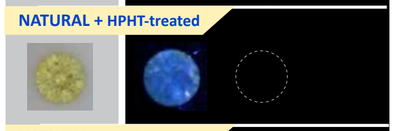
YELLOW and ORANGE

LWUV | SWUV | Phos.

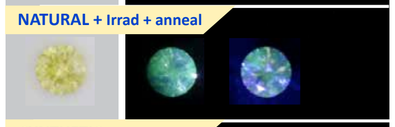
NATURAL DIAMOND



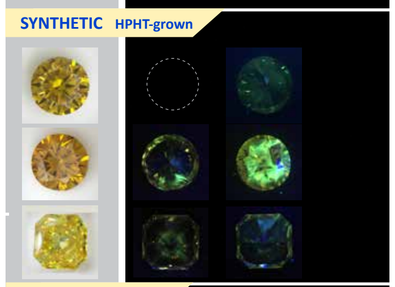
NATURAL + HPHT-treated



NATURAL + Irrad + anneal



SYNTHETIC HPHT-grown



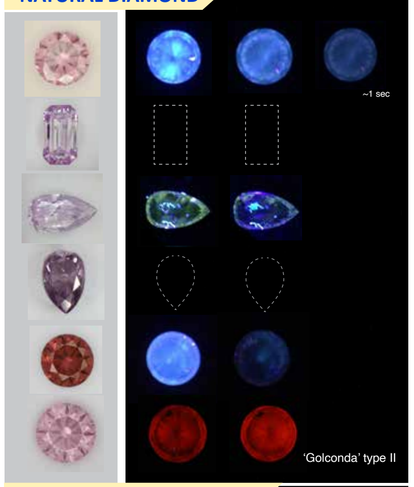
CUBIC ZIRCONIA

MOISSANITE

PINK / PURPLE

LWUV | SWUV | Phos.

NATURAL DIAMOND



SYNTHETIC HPHT + irrad + anneal

SYNTHETIC CVD-grown + irrad + anneal

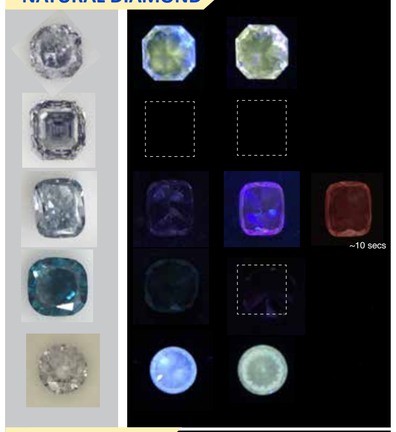
SYNTHETIC HPHT-grown + irrad + anneal

CUBIC ZIRCONIA

BLUE / VIOLET

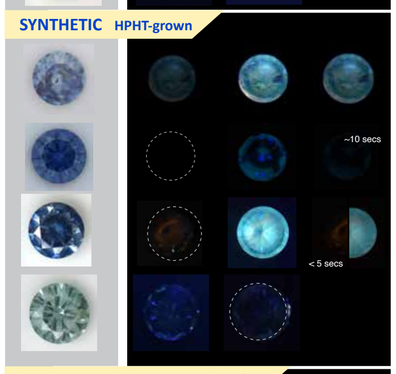
LWUV | SWUV | Phos.

NATURAL DIAMOND



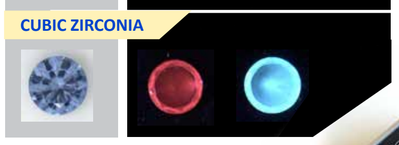
NATURAL + Irrad

SYNTHETIC HPHT-grown



SYNTHETIC CVD-grown + irrad.

CUBIC ZIRCONIA



BROWN

LWUV | SWUV

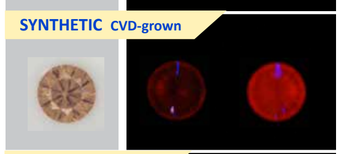
NATURAL DIAMOND

NATURAL + HPHT-treated

NATURAL + Irrad

SYNTHETIC HPHT-grown

SYNTHETIC CVD-grown



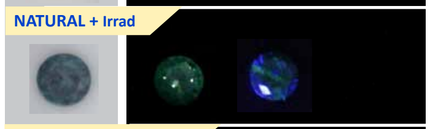
CUBIC ZIRCONIA

GREEN

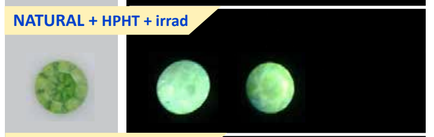
LWUV | SWUV | Phos.

NATURAL DIAMOND

NATURAL + Irrad



NATURAL + HPHT + irrad

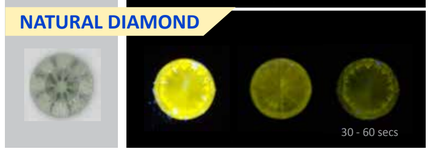


SYNTHETIC CVD-grown

CUBIC ZIRCONIA

CHAMELEON DIAMONDS

NATURAL DIAMOND



These images are examples only and there will be instances that will be inconsistent with these examples. Laboratory tests are recommended to confirm any results indicated from PL reactions.

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