Phoenix Mine phosphorescence photoluminescence Photostand

Contributed by Administrator
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Phoenix Mine. A small diamond pipe mine in the Winburg area, Orange Free State, Republic of South Africa.

phosphorescence (foss"-fo-ress'-cence). A variety of luminescence. The property possessed by some di-amonds and other gemstones of con-tinuing to emit visible light in dark-ness after exposure to X-rays, cathode rays, ultraviolet rays or visi-ble light. It differs from fluorescence, which is an emission of visible light during exposure. Phosphorescence is a continuance of luminescence after the removal of the exciting rays, and a phosphorescent stone or other ob-ject is said to phosphoresce, or glow. Phosphorescent diamonds are un-usual. See FLUORESCENCE, FLUOROCHROMA-TIC, LUMINESCENCE, PHOTOLUMINESCENCE, PRE-MIER DIAMOND, ULTRAVIOLET, ULTRAVIOLET LAMP. CHAMELEON DIAMOND.

photoluminescence (fo'-toe-loo'-ma-ness"-cence). The property of some diamonds and other gemstones to become luminescent when ex-posed to the action of visible or ul-traviolet light rays only. They are said to be fluorescent if luminescent dur-ing exposure, and phosphorescent if luminescent after exposure. See emis-sion SPECTRUM, FLUORESCENCE, LUMINESCENCE, PHOSPHORESCENCE, PREMIER DIAMOND, UL-TRAVIOLET

Photostand. The GEM Photostand is an especially designed system for photographing jewelry. The unit con-sists of a Polaroid Automatic Land Camera with cable release, auxiliary Vi size, actual size, and \Vi size color-coded lenses and electric eye adaptor. The stand has a scientifically balanced color-corrected lighting system, with focusing and centeringndicators. It uses black and white or color film.