

Phoenix Mine phosphorescence photoluminescence Photostand

Contributed by Administrator
Sunday, 23 September 2007

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

phosphorescence (fos'-fo-ress'-cence). A variety of luminescence. The property possessed by some diamonds and other gemstones of continuing to emit visible light in darkness after exposure to X-rays, cathode rays, ultraviolet rays or visible 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 object is said to phosphoresce, or glow. Phosphorescent diamonds are unusual. See FLUORESCENCE, FLUROCHROMATIC, LUMINESCENCE, PHOTOLUMINESCENCE, PREMIER 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 exposed to the action of visible or ultraviolet light rays only. They are said to be fluorescent if luminescent during exposure, and phosphorescent if luminescent after exposure. See emission SPECTRUM, FLUORESCENCE, LUMINESCENCE, PHOSPHORESCENCE, PREMIER DIAMOND, ULTRAVIOLET

Photostand. The GEM Photostand is an especially designed system for photographing jewelry. The unit consists 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 centering indicators. It uses black and white or color film.