

Title : Mineralogy, Chemical Compositions, and Gemological Characteristics of Larvikite

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ABSTRACT

Larvikite is a gem that shows the blue-gray labradorescence, which occurs from alternated layers of alkali feldspar and plagioclase. The samples were studied for their gemological properties, mineral constituents, and chemical compositions. They were gray-black and polished in a fancy and spherical shape, weigh 1.57-28.53 carats with a specific gravity in the range of 2.62-2.90. Petrographic studies exhibited phaneritic texture with major constituents including alkali feldspar that showed perthitic texture. Minor components were augite, biotite, apatite, and opaque minerals. Modal analysis indicated that these studied samples were augite syenite- monzonite. The mineral assemblages were in accord with the results obtained from X-ray diffraction technique where labradorite, orthoclase, biotite and augite were found. The study of surface morphology by SEM exhibited fine lamellae of perthitic pattern, which further chemically confirmed by EDS for their ternary feldspar characteristics with the presence of alternatively ratio of K: Na: Ca in each band.

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