

Cu-skarn v Kotli v Krkonoších (Česká republika)

Cu-skarn at Mt. Kotel, the Krkonoše Mts., Czech Republic

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Abstract

This paper is focused to geology, petrology and mineralogy of a small Cu-bearing skarn situated at Mt. Kotel in the Krkonoše Mts., Czech Republic. Small gallery from half of 19th Century is situated at the altitude of about 1344 m. The skarn belongs to the Krkonoše-Jizera LT/MP-HT metamorphic complex, close to the contact with the Variscan Krkonoše-Jizera Granite Pluton. Skarn is composed from diopside, grossular, quartz, calcite, plagioclase, actinolite and epidote with subordinated vesuvianite, chlorite, fluorite, K-feldspar, apatite and Sn-rich titanite. Ore minerals are represented by abundant chalcopyrite, pyrite, sphalerite, arsenopyrite and scheelite and much rarer Cu-Ag-Fe sulphide, galena, covellite and pyrrhotite. Secondary minerals include malachite, langite, chrysocolla, azurite and „limonite”. Microprobe data of selected silicates and sulphides are presented.

Key words: skarn, garnet, vesuvianite, Sn-titanite, sulphides, microprobe data, Mt. Kotel, the Krkonoše Mts., Czech Republic