

Mineralogie metamanganolitu z lokality Mísečky u Vernířovic (Česká republika)

Mineralogy of metamanganolite from the locality Mísečky near Vernířovice (Czech Republic)

JIŘÍ ŽIMÁK¹⁾ A PAVEL NOVOTNÝ²⁾

¹⁾ Katedra geologie, Přírodovědecká fakulta UP, tř. 17. listopadu 12, 771 46 Olomouc

²⁾ Vlastivědné muzeum v Olomouci, náměstí Republiky 5, 771 71 Olomouc

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Abstract

Two types of metamanganolite were found at the locality Mísečky near Vernířovice in the Hrubý Jeseník Mountains (northeastern part of the Bohemian Massif, the Czech Republic): (1) pinkish fine-grained quartz-garnet metamanganolite, and (2) grey-green chlorite-quartz-garnet metamanganolite, resembling a chloritized gneiss (so-called Desná gneiss, widespread in the surroundings of Vernířovice). Manganese-rich garnet is a predominant component of both types of metamanganolite. The garnet shows a strong chemical zonation: manganese contents decrease rapidly from the core to rims in contrast to increasing iron contents.

The first type of metamanganolite is known from many places in the surroundings of Vernířovice where quartz-magnetite iron ores of the BIF type were mined from the beginning of the 16th century until the beginning of the 19th century. The second type of metamanganolite is known only from the locality Mísečky and two other localities near Vernířovice. In the authors' opinion, the apparent exceptionality of this metamanganolite type is due to its imperceptible appearance in terrain.

Key words: Desná Group, metamanganolite, banded iron ore, garnet, the Hrubý Jeseník Mts., Silesia