

Výskyt wollastonitu ve skarnu ve Vlastějovicích, střední Čechy (Česká republika)

Occurrence of wollastonite at skarn in Vlastějovice, central Bohemia (Czech Republic)

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Abstract

Wollastonite as a rare mineral in iron skarn in Vlastějovice (central Bohemia, Czech Republic), has been discovered for the first time. Unzonal garnet-wollastonite aggregates occur between coarse-grained monomineral calcite rocks and quartz-rich pegmatite vein, which penetrate of pyroxene-epidote-garnet Fe-skarn metamorphosed under high amphibolite facie conditions. The needles of wollastonite are $\leq 100 \mu\text{m}$ long and form silky white nests up to 1 dm^3 in size. Intergrowns of quartz, garnet ($\text{Adr}_{62}\text{Grs}_{22}\text{Alm}_{12}\text{Sps}_4$), calcite, fluorite and apophyllite (?) with wollastonite are typical. Wollastonite formed probably by influx of SiO_2 -, H_2O -rich fluids from silicate rocks (pegmatite?) into the hydrothermal calcite vein during regional metamorphism. However, direct contact metamorphic origin at pegmatite contact is also possible.

Key words: wollastonite, calcite, pegmatite, iron skarn, regional metamorphism, Vlastějovice, Czech Republic