PŮVODNÍ PRÁCE/ORIGINAL PAPER

Vauquelinit z ložiska polymetalických rud Suchovršice u Trutnova (Česká republika)

Vauquelinite from the base-metal deposit Suchovršice near Trutnov (Czech Republic)

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Abstract

Vauquelinite, a rare phosphate and chromate of Cu and Pb, was found at the mine dump in base-metal deposit Suchovršice near Trutnov (Czech Republic). It occurs there as green-yellowish powder aggregates on the area up to 1 × 1 cm on the siliceous sandstone. Vauquelinite forms rosette aggregates composed by very thin platy crystals with a length of 10 - 20 μm and thickness about 1 μm only. The unit cell parameters of vauquelinite refined from powder X-ray data are: *a* 13.758(4) Å, *b* 5.806(2), *c* 9.558(5) Å, *β* 94.58(4)° and *V* 761.0(5) Å^3. Chemical analyses of vauquelinite (mean of 4 points) correspond to the empirical formula $(Pb_{1.94}Ca_{0.02})_{\Sigma 1.98}(Cu_{1.02}Al_{0.03}Fe_{0.02})_{\Sigma 1.07}[(PO_4)_{0.84}(AsO_4)_{0.13}(VO_4)_{0.01}]_{\Sigma 0.98}[(CrO_4)_{0.79}(SiO_4)_{0.21}]_{\Sigma 1.00}(OH)_{0.73}$.

Key words: *vauquelinite, X-ray powder data, unit-cell parameters, chemical composition, Suchovršice near Trutnov, Czech Republic*

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