

## Fibroferrit z historické lokality Valachov (Skřivaň) u Rakovníka (Česká republika)

Fibroferrite from the historical locality Valachov (Skřivaň) near Rakovník  
(Czech Republic)

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### Abstract

A historical locality Valachov (Skřivaň) near Rakovník in the Czech Republic is a type locality of mineral slavikite. During the decades there were described several minerals as alunogen, amoniojarosite, botryogen, epsomite, halotrichite, jarosite, melanterite, natrojarosite, pickeringite, gypsum and minerals of copiapite group. Newly was discovered fibroferrite which forms fine crystalline whitish aggregates at area up to 5 x 10 cm composed by tiny acicular crystals up to 0.2 mm in length. It is trigonal, space group *R*-3 with following unit-cell parameters refined from X-ray powder diffraction data: *a* 24.155(3), *c* 7.633(3) Å and *V* 3857(1) Å<sup>3</sup>. The chemical analyses of fibroferrite (mean of 6 points) Na<sub>2</sub>O 0.17, MgO 1.79, CuO 0.09, Fe<sub>2</sub>O<sub>3</sub> 29.11, Al<sub>2</sub>O<sub>3</sub> 2.51, SO<sub>3</sub> 37.03, H<sub>2</sub>O<sub>calc.</sub> 45.95, total 116.66 wt. % correspond to the empirical formula (Fe<sub>0.79</sub>Al<sub>0.11</sub>Mg<sub>0.09</sub>Na<sub>0.01</sub>)<sub>Σ1.00</sub>(SO<sub>4</sub>)<sub>1.00</sub>(OH).5H<sub>2</sub>O. Fibroferrite can be defined as a product of crystallization from wet white gel crusts and after several years breaks down to microcrystalline Al-Mg copiapite.

**Key words:** fibroferrite, powder X-ray diffraction data, unit-cell parameters, chemical composition, Valachov hill, Czech Republic

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