

Corkit a bariofarmakosiderit-Q z Vysoké u Havlíčkova Brodu (Česká republika)

Corkite and bariopharmacosiderite-Q from Vysoká hill near Havlíčkův Brod (Czech Republic)

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Abstract

Supergene mineralization with corkite and bariopharmacosiderite-Q, formed by alteration of primary arsenopyrite and galena, was found at the Vysoká hill situated 5 km in the south-east direction from Havlíčkův Brod, Czech Republic. The corkite, $\text{PbFe}_3(\text{SO}_4)(\text{PO}_4)(\text{OH})_6$, formed small (below 2 mm) crystals or crystalline clusters with glassy lustre and green or brown-green colour. The bariopharmacosiderite-Q, $\text{BaFe}_4(\text{AsO}_4)_3(\text{OH})_5 \cdot 5\text{H}_2\text{O}$, formed tiny aggregates of light yellow pseudocubic crystals with size 0.02 to 0.05 mm. The refined unit-cell parameters for corkite are: $a = 7.285(1)$, $c = 16.831(1)$ and $V = 773.6(1) \text{ \AA}^3$; for bariopharmacosiderite-Q are: $a = 7.947(6)$, $c = 8.046(9)$ and $V = 508.1(4) \text{ \AA}^3$. Chemical composition of both described minerals is close to the theoretical end members.

Key words: corkite, bariopharmacosiderite-Q, X-ray powder diffraction, chemical composition, Vysoká hill near Havlíčkův Brod, Czech Republic