

Meneghinit a boulangerit z lomu Prachovice v Železných horách, Česká republika

Meneghinite and boulangerite from the Prachovice quarry in the Železné hory Mountains, Czech Republic

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Abstract

Two new primary ore minerals, meneghinite and boulangerite, were found in the active quarry near Prachovice in the Železné hory Mountains, Czech Republic. Both minerals and galena intergrow in silver-grey needle aggregates up to 6 cm on fissures of the silurian and devonian limestones. Meneghinite is orthorhombic with $a = 11.3639(5)$, $b = 24.0950(9)$, $c = 4.1437(4)$ Å, $V = 1134.61(4)$ Å³, and empirical formula (mean of six analyses, base 45 *apfu*): $\text{Pb}_{12.92}\text{Cu}_{0.91}(\text{Sb}_{7.03}\text{Bi}_{0.07}\text{As}_{0.04})_{\Sigma 7.14}(\text{S}_{23.88}\text{Se}_{0.15})_{\Sigma 24.03}$. Boulangerite is orthorhombic with $a = 23.4990(4)$, $b = 21.1911(2)$, $c = 4.0329(1)$ Å, $V = 2008.23(6)$ Å³, and empirical formula (mean of four analyses, base 20 *apfu*): $\text{Pb}_{5.03}(\text{Sb}_{3.94}\text{Bi}_{0.04}\text{As}_{0.03})_{\Sigma 4.01}(\text{S}_{10.91}\text{Se}_{0.06})_{\Sigma 10.97}$. Cerussite and mimetite were determined according to PXRD and EPMA study as a supergene (sub)recent phases originated by weathering of ore minerals.

Key words: meneghinite, boulangerite, X-ray powder diffraction, electron microprobe data, Prachovice quarry, Železné hory Mountains, Czech Republic