

Datolit z permských metabazaltov na lokalite Lošonec (Malé Karpaty, jz. Slovensko)

Datolite from Permian metabasalts in Lošonec (Malé Karpaty Mountains, SW Slovakia)

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Abstract

Fine-crystalline to massive datolite has been identified as nodule and fracture fillings in Permian rift-related metabasalts near Lošonec village, Malé Karpaty Mountains, SW Slovakia. The electron-microprobe and X-ray diffraction data [$a = 4.8365(2) \text{ \AA}$, $b = 7.6120(5) \text{ \AA}$, $c = 9.6353(5) \text{ \AA}$, $\beta = 90.128(6)^\circ$] indicate a nearly pure datolite end-member. Datolite associates with quartz, calcite, talc/stevensite and hematite (goethite?). It precipitated probably from post-magmatic (hydrothermal) boron-rich fluids of volcanic origin.

Key words: datolite, stevensite or talc, metabasalts, Malé Karpaty Mts., Slovakia