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PŮVODNÍ PRÁCE/ORIGINAL PAPER

Nordstrandit z Richterova lomu v saském Hammerunterwiesenthalu (Německo)

Nordstrandite from the Richter quarry in Hammerunterwiesenthal, Saxony (Germany)

LUBOŠ VRTIŠKA*, JIŘÍ SEJKORA A RADANA MALÍKOVÁ

*Mineralogicko-petrologické oddělení, Národní muzeum, Cirkusová 1740, 193 00 Praha 9 - Horní Počernice;
e-mail: lubos.vrtiska@nm.cz

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Abstract

The new occurrence of well-crystalline Al-hydroxide, nordstrandite, was found in the Richter quarry in Hammerunterwiesenthal (Germany). Nordstrandite forms a cluster of pink-orange elongated translucent lanceolate crystals of 6 × 3 mm in size. Nordstrandite is triclinic, space group *P*-1 with following unit-cell parameters: *a* 5.111(9), *b* 5.079(9), *c* 5.132(8) Å, α 70.3(1)°, β 74.1(9)°, γ 58.5(9)° and *V* 106.2(4) Å. Raman spectrum agrees very well with published data for this mineral phase and is considerably different from Raman spectra of another Al(OH)₃ polymorphs. Nordstrandite was found in the close association with natrolite.

Key words: nordstrandite, natrolite, powder X-ray diffraction data, unit-cell parameters, Raman spectra, Richter quarry, Hammerunterwiesenthal, Erzgebirge Mts., Germany

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