

HÜBNERITA DE LA PEGMATITA EL PEÑÓN, NEVADOS DE PALERMO, SALTA

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Abstract

Hübnerite forms a 1x1.8 cm brown crystal enclosed in a late-stage association of platt' albite and minor quartz and muscovite in a beryl-columbite-phosphate-subtype, beryl-type, rare-element class pegmatite. Chemical analysis by electron microprobe gave: WO_3 78.45, Nb_2O_5 0.07, TiO_2 0.02, Sc_2O_3 0.01, Sb_2O_3 0.04, MnO 21.16, FeO 1.58, CaO 0.02 and the formula unit of $(Mn_{0.89}Fe_{e-0.7})W_{1.01}O_4$. Unit-cell dimensions are $a = 4,822(1)$, $b = 5,755(1)$, $c = 4,991(1)$ Å, $\beta = 91,05^\circ(1)$, $V = 138,47(2)$ Å³. The textural relationships show that hübnerite crystallized as a primary phase. Its formation, after montebrasite, tapiolite, uraninite and manganotantalite, but in close association with these minerals at the end of the pegmatite consolidation, strongly suggests that hübnerite crystallized within the closed pegmatite system.