Telluronevskite

Crystal Data: Hexagonal.  Point Group: \( \bar{3} \overline{2}/m \). As irregular grains and poorly shaped laths and prisms flattened on (0001), to 1 mm, and as massive aggregates to 2 mm.

Physical Properties: Cleavage: Perfect on \{001\}.  Tenacity: Flexible as thin plates.

Optical Class: n.d.

Cell Data: Space Group: \( P \bar{3}m1 \).  \( a = 4.264(6) \) \( c = 23.25(3) \) \( Z = 2 \)

X-ray Powder Pattern: Vihorlat Mountains, eastern Slovakia, Slovak Republic.
3.12 (100), 2.13 (36), 2.28 (33), 4.66 (19), 1.355 (18), 1.935 (16), 3.32 (13)

Chemistry:

\[
\begin{array}{ccc}
\text{Bi} & 68.84 & 68.7 \\
\text{Pb} & 0.42 & \\
\text{Se} & 15.41 & 17.3 \\
\text{Te} & 14.58 & 14.0 \\
\text{S} & 1.14 & \\
\text{Total} & 100.39 & 100.0 \\
\end{array}
\]

(1) Vihorlat Mountains, eastern Slovakia, Slovak Republic; average electron microprobe analysis; corresponds to \( (\text{Bi}_{2.92}\text{Pb}_{0.02})\Sigma_{2.94}\text{Te}_{1.00}(\text{Se}_{1.73}\text{S}_{0.32})\Sigma_{2.05} \).  (2) \( \text{Bi}_3\text{TeSe}_2 \).

Mineral Group: Tsumoite subgroup of the tetradymite group.

Occurrence: In opal-quartz veinlets and as disseminated grains in 'secondary quartzite' that was formed by contact metamorphism or hydrothermal alteration of volcanic rocks.

Association: Quartz, opal.

Distribution: From the Vihorlat Mountains, near Košice, eastern Slovakia, Slovak Republic.

Name: Alludes to the chemical relationship to nevskite, through substitution of tellurium for selenium.

Type Material: Museum of Bohemian Paradise, Turnov, Czech Republic (593/99) and the Museum of Eastern Slovakia, Košice, Slovak Republic (G 10772).