Kurumsakite

\((\text{Zn, Ni, Cu})_8\text{Al}_8\text{V}^{5+}_2\text{Si}_5\text{O}_{35}\cdot 2\text{H}_2\text{O}(?)\)

©2001 Mineral Data Publishing, version 1.2

Crystal Data:  Orthorhombic (?).  Point Group:  n.d.  As radiating to finely felted fibers.


Optical Properties:  Transparent to translucent.  Color:  Yellowish green to bright yellow.  Luster:  Vitreous to silky.  Optical Class:  Biaxial (+).  \(\alpha = 1.616\)  \(\beta = \text{n.d.}\)  \(\gamma = 1.622-1.623\)  2V(meas.) = \(\sim 35^\circ\)

Cell Data:  Space Group:  n.d.  \(Z = \text{n.d.}\)

X-ray Powder Pattern:  Kurumsak, Kazakhstan.  (ICDD 29-571, corrected lines).  1.53 (100), 3.91 (75), 2.61 (50), 2.28 (38), 4.91 (25), 1.42 (25), 2.42 (13)

Chemistry:

\[
\begin{array}{lcccc}
\text{SiO}_2 & 13.82 \\
\text{Al}_2\text{O}_3 & 20.51 \\
\text{Fe}_2\text{O}_3 & 2.15 \\
\text{V}_2\text{O}_5 & 8.50 \\
\text{NiO} & 7.33 \\
\text{CuO} & 3.05 \\
\text{ZnO} & 17.55 \\
\text{MgO} & 0.92 \\
\text{CaO} & 1.24 \\
\text{H}_2\text{O} & 23.25 \\
\text{SO}_3 & 1.15 \\
\hline
\text{Total} & 99.47 \\
\end{array}
\]

(1) Kurumsak, Kazakhstan.

Occurrence:  In bituminous schists in the walls of cavities and open fissures.

Association:  n.d.

Distribution:  From the Kurumsak vanadium deposit, near Dzhambul, Kara-Tau Mountains, Kazakhstan.

Name:  For the locality at Kurumsak, Kazakhstan.

Type Material:  Mining Institute, St. Petersburg, Russia, 1273/1.