## Karpinskite $(Mg,Ni)_2Si_2O_5(OH)_2(?)$



**Crystal Data:** Monoclinic (?). *Point Group:* n.d. As minute plates and monoclinic prisms, to 0.8 mm; appears to be cryptocrystalline.

**Physical Properties:** Hardness = 2.5–3 D(meas.) = 2.53–2.63 D(calc.) = n.d.

**Optical Properties:** Semitransparent. *Color:* Colorless, light blue to deep greenish blue.
*Luster:* Dull to weakly greasy.
*Optical Class:* Biaxial (–). *Orientation:* $X \wedge c = 0°$–$12°$. $\alpha$ = 1.553–1.570 $\beta$ = n.d.
$\gamma$ = 1.569–1.594 2V(meas.) = n.d.

**Cell Data:** *Space Group:* n.d. Z = n.d.

**X-ray Powder Pattern:** Nizhni Tagil massif, Russia.
11., 7.71, 4.76, 3.75, 1.555 [strongest lines]

**Chemistry:**

| | (1) |
|---|---|
| $SiO_2$ | 47.55 |
| $Al_2O_3$ | 0.48 |
| NiO | 21.12 |
| CuO | 0.01 |
| MgO | 17.56 |
| CaO | 0.80 |
| $H_2O^+$ | 6.50 |
| $H_2O^-$ | 3.50 |
| LOI | 2.30 |
| Total | 99.82 |

(1) Nizhni Tagil massif, Russia; corresponds to $(Mg_{1.30}Ni_{0.70})_{\Sigma=2.00}Si_2O_5(OH)_2$.

**Occurrence:** As veinlets in "kerolitized" serpentinite.

**Association:** n.d.

**Distribution:** In the Nizhni Tagil massif, Ural Mountains, Russia.

**Name:** For Alexander Petrovich Karpinsky (1847–1936), Russian geologist and President of the Russian Academy of Sciences, Moscow, Russia.

**Type Material:** n.d.

**References:** (1) Rukavishnikova, I.A. (1956) Some magnesium-nickel hydrous silicates of the Nizhne-Tagilsk serpentine massif. Kora Vyvetrivaniya [The crust of weathering], 2, 124–178 (in Russian). (2) (1957) Amer. Mineral., 42, 584 (abs. ref. 1).