

Crystal Data: Triclinic. *Point Group:* n.d. As prismatic grains, elongated, to 2 mm, in thin veinlets.

Physical Properties: Hardness = ~2 $D(\text{meas.}) = 1.798(2)$ $D(\text{calc.}) = 1.787$ Slowly soluble in H_2O .

Optical Properties: Transparent. *Color:* Colorless.

Optical Class: Biaxial (-). *Orientation:* Extinction $6^\circ\text{--}8^\circ$ to elongation. $\alpha = 1.516(1)$
 $\beta = 1.538(1)$ $\gamma = 1.547(1)$ $2V(\text{meas.}) = -62^\circ$

Cell Data: *Space Group:* n.d. $a = 8.64(3)$ $b = 6.25(1)$ $c = 7.42(1)$ $\alpha = 101.4(3)^\circ$
 $\beta = 103.9(1)^\circ$ $\gamma = 72.7(6)^\circ$ $Z = 2$

X-ray Powder Pattern: Korshunov deposit, Russia.

8.04 (100), 2.439 (95), 3.843 (75), 4.032 (70), 1.857 (70), 2.873 (60b), 2.703 (60)

Chemistry:

	(1)
SiO_2	0.09
Fe_2O_3	0.10
MgO	37.62
CaO	4.69
Cl	14.84
H_2O^+	27.06
H_2O^-	9.36
CO_2	8.78
$-\text{O} = \text{Cl}_2$	3.35
Total	99.19

(1) Korshunov deposit, Russia; (OH) and H_2O confirmed by IR; after deduction of magnesite and dolomite ~16%, minor magnetite, and antigorite, corresponds to $\text{Mg}_{2.00}\text{Cl}_{1.03}(\text{OH})_3 \cdot 3.5\text{H}_2\text{O}$.

Occurrence: From a drill core taken at 770 m in an iron ore deposit, in low-temperature hydrothermal veinlets in dolomitic marble.

Association: Ekaterinite, shabynite, magnetite, antigorite, dolomite, magnesite.

Distribution: From the Korshunov iron deposit, Irkutsk region, Siberia, Russia.

Name: For the Korshunov deposit, Russia, where it was first discovered.

Type Material: A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia.

References: (1) Malinko, S.V., A.E. Lisitsyn, S.P. Purusova, B.P. Fitsev, and T.A. Khruleva (1982) Korshunovskite $\text{Mg}_2\text{Cl}(\text{OH})_3 \cdot n\text{H}_2\text{O}$, – a new hydrous magnesium chloride. *Zap. Vses. Mineral. Obshch.*, 111, 324–329 (in Russian). (2) (1983) *Amer. Mineral.*, 68, 643 (abs. ref. 1). (3) (1983) *Mineral. Abs.*, 34, 184 (abs. ref. 1). (4) de Wolff, P.M. and L. Walter-Lévy (1953) The crystal structure of $\text{Mg}_2(\text{OH})_3(\text{Cl}, \text{Br}) \cdot 4\text{H}_2\text{O}$. *Acta Cryst.*, 6, 40–44.