

**Crystal Data:** Hexagonal. *Point Group:* 6/m 2/m 2/m. As lamellar or tabular hexagonal crystals to 0.25 mm flattened on dominant {00\*1}, single or in stacked groups.

**Physical Properties:** Cleavage: Perfect on {00\*1}. *Tenacity:* Flexible. *Fracture:* Laminated. Hardness = 2 (by analogy in the supergroup). D(meas.) = n.d. D(calc.) = 2.123 Nonfluorescent.

**Optical Properties:** Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Uniaxial (+).  $\epsilon = 1.583(2)$   $\omega = 1.546(2)$  Non-pleochroic.

**Cell Data:** *Space Group:* P6<sub>3</sub>/mcm.  $a = 5.0960(3)$   $c = 15.358(1)$   $Z = 1$

**X-ray Powder Pattern:** Verkhnekamskoe K-salt deposit, Perm Krai, Western Urals, Russia. 7.68 (100), 3.832 (99), 4.422 (61), 2.561 (30), 1.445 (26), 2.283 (25), 1.807 (20)

Chemistry:	(1)	(2)
Li <sub>2</sub> O	6.6	6.63
Al <sub>2</sub> O <sub>3</sub>	45.42	45.23
SiO <sub>2</sub>	0.11	
Cl	14.33	15.72
SO <sub>3</sub>	0.21	
H <sub>2</sub> O	[34.86]	35.97
-O = Cl	3.24	3.55
Total	98.29	100.00

(1) Verkhnekamskoe K-salt deposit, Perm Krai, Western Urals, Russia; average electron microprobe, Raman spectroscopic, and ICP-MS analyses, H<sub>2</sub>O calculated from structure; corresponding to Li<sub>1.99</sub>Al<sub>4.00</sub>Si<sub>0.01</sub>[(OH)<sub>12.19</sub>Cl<sub>1.82</sub>(SO<sub>4</sub>)<sub>0.01</sub>]<sub>Σ=14.02</sub>·2.60(H<sub>2</sub>O).

(2) Li<sub>2</sub>Al<sub>4</sub>(OH)<sub>12</sub>Cl<sub>2</sub>·3H<sub>2</sub>O.

**Polymorphism & Series:** Occurs as the 2H polytype.

**Mineral Group:** Hydrotalcite supergroup.

**Occurrence:** A result of diagenesis in the halite-carnallite rock salt deposit.

**Association:** Dolomite, magnesite, quartz, Sr-bearing baryte, kaolinite, potassic feldspar, krasnoshteinite, congolite, members of the goyazite-woodhouseite series, fluorite, hematite, anatase.

**Distribution:** In drillcore of borehole #2001 (depth 248 m), Romanovskiy area of the Verkhnekamskoe K-salt deposit, 30 km south of Berezniki, Perm Krai, Western Urals, Russia.

**Name:** Honors Russian crystallographer and mineralogist Professor Victor Anatol'evich *Drits* (b. 1932), Geological Institute of the Russian Academy of Sciences, Moscow, for contributions to the studies of the crystal chemistry and systematics of layered minerals, including the hydrotalcite supergroup. Professor *Drits* is a specialist in the mineralogy of sedimentary rocks and crystal chemistry of compounds with layered structures, especially clay minerals.

**Type Material:** A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (5380/1).

**References:** (1) Zhitova, E.S., I.V. Pekov, I.I. Chaikovskiy, E.P. Chirkova, V.O. Yapaskurt, Y.V. Bychkova, D.I. Belakavskiy, N.V. Chukanov, N.V. Zubkova, S.V. Krivovichev, and V.N. Bocharov (2019) Dritsite, Li<sub>2</sub>Al<sub>4</sub>(OH)<sub>12</sub>Cl<sub>2</sub>·3H<sub>2</sub>O, a new gibbsite-based hydrotalcite supergroup mineral. *Minerals*, 9(8), 492, 1-15.