**Crystal Data**: Monoclinic. *Point Group: m.* As dense, massive aggregates or thin crusts and snow-like coatings of flaky crystals, to 0.15 mm.

**Physical Properties**: Cleavage: Perfect on  $\{001\}$ . Fracture: n.d. Tenacity: Not elastic. Hardness = 3 D(meas.) = 2.62(1) D(calc.) = 2.69(1)

**Optical Properties**: Translucent. *Color*: Colorless, light grey with a pinkish or yellow hue. *Streak*: Light pinkish gray. *Luster*: Greasy.

Optical Class: Biaxial.  $\alpha = 1.574(2)$   $\beta = 1.580(2)$   $\gamma = 1.591(2)$  2V(calc.) = 72°

**Cell Data**: *Space Group*: Probably *Cc* by analogy with cookeite. a = 5.110(4) b = 8.856(3) c = 14.080(6)  $\beta = 96.9^{\circ}$  Z = 2

**X-ray Powder Pattern**: Malkhan deposit, Chikoy district, Chita oblast, Russia. 3.512 (100), 4.71 (70), 6.99 (50), 2.807 (20), 2.304 (17), 2.304 (16), 2.332 (14)

Chemistry:		(1)		(1)
	$SiO_2$	34.19	$Li_2O$	4.65
	$TiO_2$	0.02	$Rb_2O$	0.004
	$Al_2O_3$	41.77	$Cs_2O$	0.005
	FeO	0.06	$B_2O_3$	4.06
	MnO	0.07	BeO	0.05
	MgO	0.04	$H_2O^+$	14.17
	CaO	0.08	$H_2O^-$	0.11
	$Na_2O$	0.01	F	1.22
	$K_2O$	< 0.01	$-\Omega - F$	0.51

(1) Malkhan deposit, Chikoy district, Chita oblast, Russia; by wet chemistry, flame photometry and electron microprobe analyses, recalculated to 100% after deduction of 1.91 wt. % admixed quartz; corresponding to  $\text{Li}_{1.61}\text{Al}_{3.80}(\text{Al}_{0.44}\text{B}_{0.60}\text{Be}_{0.01}\text{Si}_{2.95})_{\Sigma=4.00}\text{O}_{10}[F_{0.33}(OH)_{7.81}]_{\Sigma=8.14}$ .

Total 100.00

Mineral Group: Chlorite group.

Occurrence: In miarolitic cavities in gem-bearing, zoned, complex, Li-bearing granitic pegmatite.

Association: Elbaite, lepidolite, danburite, boron-rich muscovite, laumontite, quartz, albite.

**Distribution**: From the Sosedka and Mokhovaya pegmatite veins, Malkhan gem tourmaline deposit, Krasny Chikoy district, Chita oblast, Russia.

Name: The prefix indicates the boron-dominant analogue of *cookeite*.

**Type Material**: A.E. Fersman Mineralogical Museum, Russian Academy of Science, Moscow, Russia (2522/1).

**References**: (1) Zagorsky, V.Y., I.S. Peretyazhko, A.N. Sapozhnikov, A.P. Zhukhlistov, and B.B. Zvyagin (2003) Borocookeite, a new member of the chlorite group from the Malkhan gem tourmaline deposit, Central Transbaikalia, Russia. Amer. Mineral., 88, 830-836.