

Crystal Data: Hexagonal. *Point Group:* 6. As dipyramidal {10 4} crystals to 1 mm; also as granular sugary aggregates to 5 mm.

Physical Properties: *Cleavage:* Perfect on {100}. *Tenacity:* n.d. *Fracture:* n.d.
Hardness = ~ 3 $D(\text{meas.}) = 1.79(1)$ $D(\text{calc.}) = 1.777$

Optical Properties: Transparent. *Color:* Colorless; white aggregates. *Streak:* White.
Luster: Vitreous.
Optical Class: Uniaxial (+). $\omega = 1.475(2)$ $\varepsilon = 1.496(2)$

Cell Data: *Space Group:* $P6_3$. $a = 11.1110(4)$ $c = 10.6294(6)$ $Z = 2$

X-ray Powder Pattern: Bazhenovskoe chrysotile deposit, near Asbest, Middle Urals, Russia.
9.63 (100), 5.556 (30), 3.841 (21), 4.654 (14), 3.441 (12), 2.538 (12), 2.746 (10)

Chemistry:	(1)
CaO	27.40
B ₂ O ₃	4.06
Al ₂ O ₃	6.34
Fe ₂ O ₃	0.03
SiO ₂	2.43
SO ₃	8.48
CO ₂	4.2
H ₂ O	46.1
Total	99.04

(1) Bazhenovskoe chrysotile deposit, near Asbest, Middle Urals, Russia; ICP-AES supplemented by IR spectroscopy, H₂O by the Alimarin method and CO₂ by selective sorption; corresponding to H_{31.41}Ca_{3.00}(Al_{0.76}Si_{0.25})_{Σ=1.01}(B_{0.72}S_{0.65}C_{0.59})_{Σ=1.96}O_{24.55}.

Mineral Group: Ettringite group.

Occurrence: In cavities in a rodingite body at the contact between a dike of partly rodingitized gabbroic rock and hosting serpentinite.

Association: Diopside, xonotlite, clinochlore, pectolite, calcite.

Distribution: From the Bazhenovskoe chrysotile deposit, near Asbest, Middle Urals, Russia.

Name: Honors Russian geologist and petrologist Pavel Mikhailovich Tatarinov (1895-1976), a specialist in deposits of chrysotile asbestos.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (4736/1 and 4736/2).

References: (1) Chukanov, N.V., A.V. Kasatkin, N.V. Zubkova, S.N. Britvin, L.A. Pautov, I.V. Pekov, D.A. Varlamov, Ya.V. Bychkova, A.B. Loskutov, and E.A. Novgorodova (2016) Tatarinovite $\text{Ca}_3\text{Al}(\text{SO}_4)[\text{B}(\text{OH})_4](\text{OH})_6 \cdot 12\text{H}_2\text{O}$, a new ettringite-group mineral from the Bazhenovskoe deposit (the Middle Urals, Russia) and its crystal structure. Geology of Ore Deposits, 58(8), 653-665. (2) (2017) Amer. Mineral., 102(7), 1569-1570 (abs. ref. 1).