

Crystal Data: Monoclinic. *Point Group:* 2/m. As flattened anhedral grains to 6 cm.

Physical Properties: *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* Uneven. Hardness = 6
D(meas.) = 6.06 D(calc.) = 6.302

Optical Properties: Opaque. *Color:* Black; gray in reflected light. *Streak:* Black.
Luster: Semi-metallic to dull.

Optical Class: Biaxial. Distinctly birefractant. *Pleochroism:* Gray to light gray.
R₁-R₂: (470) 18.9-17.1, (546) 17.9-16.2, (589) 17.4-16.1, (650) 17-15.9

Cell Data: *Space Group:* P2/c. *a* = 4.668(1) *b* = 5.659(1) *c* = 5.061(1) β = 90.21(1)° *Z* = 2

X-ray Powder Pattern: Bulgut occurrence, Altai Mts., Western Mongolia.

2.938 (100), 3.604 (49), 1.698 (31), 2.476 (29), 2.337 (27), 1.718 (26), 2.534 (23)

Chemistry:	(1)
MnO	1.68
FeO	[5.92]
Fe ₂ O ₃	[14.66]
TiO ₂	7.69
Nb ₂ O ₅	26.59
Ta ₂ O ₅	37.51
<u>WO₃</u>	<u>5.61</u>
Total	99.66

(1) Bulgut occurrence, Altai Mts., Western Mongolia; average of 5 electron microprobe analyses, Fe apportioned by Mössbauer spectroscopy; corresponds to Mn²⁺_{0.06}Fe²⁺_{0.21}Fe³⁺_{0.47}Ti_{0.25}Nb_{0.51}Ta_{0.43}W_{0.06}O₄.

Occurrence: In a lens-shaped, zoned pegmatite body at the contact of porphyritic biotite granite with crystalline schist.

Association: Quartz, microcline, muscovite, triplite, albite, apatite, pyrite, schorl, almandine-spessartine garnet, beryl, zircon, yttrobetafite-(Y), unspecified tantaloniobates.

Distribution: Found at the Bulgut occurrence, Altai Mts., Western Mongolia.

Name: Honors Lev Nikolaevich Rossovsky (1933-2009), a specialist in the geology, geochemistry and mineralogy of granite pegmatites for his contributions to the investigation of numerous pegmatite fields in Central Asia and Russia.

Type Material: Mineralogical Museum, Tomsk State University, Tomsk, Russia (20927).

References: (1) Konovalenko, S.I., S.A. Ananyev, N.V. Chukanov, R.K. Rastsvetaeva, S.M. Aksenov, A.A. Baeva, R.R. Gainov, F.G. Vagizov, O.N. Lopatin, and T.S. Nebera (2015) A new mineral species rosovskyite, (Fe³⁺,Ta)(Nb,Ti)O₄: crystal chemistry and physical properties. *Physics and Chemistry of Minerals*, 42(10), 825-833. (2) (2018) *Amer. Mineral.*, 103, 2530-2531 (abs. ref. 1).