

**Crystal Data:** Cubic. *Point Group:*  $4/m\bar{3}2/m$ . Cubes and cubo-octahedra, to 2 mm, and granular, massive.

**Physical Properties:** *Fracture:* Conchoidal. *Tenacity:* Brittle. Hardness = 6–6.5  
D(meas.) = 4.88 D(calc.) = 4.83–4.86

**Optical Properties:** Semitransparent. *Color:* Ruby-red, brownish red, dark reddish brown, gray; white in reflected light. *Luster:* Adamantine.

*Optical Class:* Isotropic; may be weakly anisotropic.  $n = 2.40$

**Cell Data:** *Space Group:*  $Pm\bar{3}m$ .  $a = 3.905\text{--}3.913$   $Z = 1$

**X-ray Powder Pattern:** Murun massif, Russia.

2.761 (100), 1.952 (50), 1.5941 (30), 2.254 (18), 1.3805 (15), 1.2346 (10), 1.0436 (10)

Chemistry:	(1)	(2)	(3)	(1)	(2)	(3)
Nb <sub>2</sub> O <sub>5</sub>	trace	0.13		Fe <sub>2</sub> O <sub>3</sub>	1.80	1.22
SiO <sub>2</sub>	5.00	2.20		MnO	0.04	trace
TiO <sub>2</sub>	44.60	43.40	43.53	MgO	0.10	0.11
ZrO <sub>2</sub>	0.00	0.07		CaO	2.36	2.76
Al <sub>2</sub> O <sub>3</sub>	0.70	trace		SrO	42.00	39.26
La <sub>2</sub> O <sub>3</sub>	trace	2.23		BaO	1.60	0.40
Ce <sub>2</sub> O <sub>3</sub>	trace	4.10		Na <sub>2</sub> O	1.22	2.16
Nd <sub>2</sub> O <sub>3</sub>	trace	0.91		K <sub>2</sub> O	0.82	0.22
				Total	100.24	[99.17]
						100.00

(1) Murun massif, Russia; after deducting impurities corresponds to (Sr<sub>0.85</sub>Ca<sub>0.02</sub>Ba<sub>0.02</sub>Na<sub>0.02</sub>K<sub>0.02</sub>)<sub>Σ=0.93</sub>TiO<sub>3</sub>. (2) Do.; original total given as 99.18%; corresponds to (Sr<sub>0.70</sub>Na<sub>0.10</sub>Ce<sub>0.05</sub>Ca<sub>0.03</sub>La<sub>0.02</sub>Nd<sub>0.01</sub>K<sub>0.01</sub>)<sub>Σ=0.92</sub>Ti<sub>1.00</sub>O<sub>3</sub>. (3) SrTiO<sub>3</sub>.

**Mineral Group:** Perovskite group.

**Occurrence:** In aegirine-kalsilite rock in an alkalic massif (Murun massif, Russia); in a rheomorphic fenite dike in a carbonatite complex (Sarambi, Paraguay).

**Association:** Aegirine, kalsilite, potassic feldspar, titanite, magnetite, lamprophyllite, barium lamprophyllite, wadeite, batisite, anatase (Murun massif, Russia).

**Distribution:** From the Murun massif, southwest of Olekminsk, Sakha, Russia. In the Sarambi carbonatite complex, about 27 km northeast of Sarambi, Paraguay.

**Name:** To honor Academician Lev Vladimirovich Tauson (1917–1989), Russian geochemist, Director of the Geochemical Institute, Irkutsk, Russia.

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

**References:** (1) Vorob'ev, E.I., A.A. Konev, Y.V. Malyshonok, G.F. Afonina, and A.N. Sapozhnikov (1984) Tausonite, SrTiO<sub>3</sub>, a new mineral of the perovskite group. *Zap. Vses. Mineral. Obshch.*, 113, 86–89 (in Russian). (2) (1985) *Amer. Mineral.*, 70, 218 (abs. ref. 1). (3) (1985) *Mineral. Abs.*, 36, 94 (abs. ref. 1).