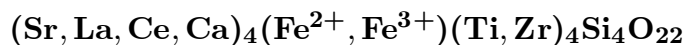


**Strontiochevkinite**

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**Crystal Data:** Monoclinic. *Point Group:* 2/m. As rounded grains, up to 1.5 mm.  
*Twinning:* Thick parallel or interpenetrating twins seen in polished section.

**Physical Properties:** Hardness = ~5 D(meas.) = n.d. D(calc.) = 5.44

**Optical Properties:** Opaque. *Color:* Flesh-pink; dark gray in reflected light, may show deep red internal reflections. *Luster:* Submetallic. *Anisotropism:* Strong, in shades of gray.

**Cell Data:** *Space Group:*  $P2_1/a$ .  $a = 13.56$   $b = 5.70$   $c = 11.10$   $\beta = 100.32^\circ$   $Z = 2$

**X-ray Powder Pattern:** Near Sarambi, Paraguay.

3.01 (100), 1.97 (75), 2.19 (70), 2.51 (40), 2.73 (30), 2.85 (25), 3.21 (10)

**Chemistry:**

	(1)		(1)
SiO <sub>2</sub>	20.45	Cr <sub>2</sub> O <sub>3</sub>	0.04
TiO <sub>2</sub>	23.16	FeO	6.02
ZrO <sub>2</sub>	10.30	MnO	0.08
Al <sub>2</sub> O <sub>3</sub>	0.11	CaO	2.05
Y <sub>2</sub> O <sub>3</sub>	0.05	SrO	19.60
La <sub>2</sub> O <sub>3</sub>	9.18	BaO	0.38
Ce <sub>2</sub> O <sub>3</sub>	9.35	Na <sub>2</sub> O	0.02
RE <sub>2</sub> O <sub>3</sub>	0.05	Total	100.84

(1) Near Sarambi, Paraguay; UO<sub>2</sub>, ThO<sub>2</sub>, Nb<sub>2</sub>O<sub>5</sub>, PbO, MgO, K<sub>2</sub>O, all < 0.01%; corresponds to (Sr<sub>2.17</sub>Ce<sub>0.66</sub>La<sub>0.65</sub>Ca<sub>0.42</sub>Ba<sub>0.03</sub>Na<sub>0.01</sub>)<sub>Σ=3.94</sub>(Fe<sub>0.96</sub><sup>2+</sup>Mn<sub>0.01</sub>)<sub>Σ=0.97</sub>(Ti<sub>3.26</sub>Zr<sub>0.96</sub>Al<sub>0.03</sub>Cr<sub>0.01</sub>)<sub>Σ=4.26</sub>Si<sub>3.91</sub>O<sub>22</sub>.

**Occurrence:** In the more mafic bands of fenite dikes formed radially around carbonatite plugs.

**Association:** Sanidine, aegirine, nepheline, hematite, zeolites, strontian loparite, lamprophyllite.

**Distribution:** In the Sarambi carbonatite complex, about 27 km northeast of Sarambi, Paraguay.

**Name:** For the *strontium* content and relation to *chevkinite*.

**Type Material:** The Natural History Museum, London, England, 1984,482; National Museum of Natural History, Washington, D.C., USA, 161154.

**References:** (1) Haggerty, S.E. and A.N. Mariano (1983) Strontian-loparite and strontio-chevkinite: two new minerals in rheomorphic fenites from the Paraná basin carbonatites, South America. *Contr. Mineral. Petrol.*, 84, 365–381. (2) (1984) *Amer. Mineral.*, 69, 1192–1193 (abs. ref. 1).