

Loranskite-(Y)**(Y, Ca, Ce)(Ta, Zr)₂O₆(?)**

©2001-2005 Mineral Data Publishing, version 1

Crystal Data: Metamict. *Point Group:* n.d. Massive; originally stated to occur in crystals resembling samarskite.

Physical Properties: *Fracture:* Conchoidal. *Tenacity:* Brittle. Hardness = 5
D(meas.) = 4.6 D(calc.) = n.d. Slightly radioactive.

Optical Properties: Opaque, transparent in thin fragments. *Color:* Black; greenish yellow in transmitted light. *Streak:* Greenish gray. *Luster:* Submetallic.
Optical Class: Isotropic. $n = 2.06$

Cell Data: *Space Group:* n.d. $Z =$ n.d.

X-ray Powder Pattern: n.d.

Chemistry:	(1)
Ta ₂ O ₅	47.0
ZrO ₂	20.0
(Y, Er) ₂ O ₃	10.0
(Ce, La) ₂ O ₃	3.0
Fe ₂ O ₃	4.0
CaO	3.3
LOI	8.15
<hr/>	
Total	95.45

(1) Impilakhti, Russia; partial analysis, corresponds to [(Y_{0.47}Ca_{0.31}Fe_{0.29}Ce_{0.10})_{Σ=1.17}(Ta_{1.13}Zr_{0.86})_{Σ=1.99}O₆].

Occurrence: In pegmatite.

Association: Intermixed with other oxides, monazite.

Distribution: From Impilakhti, Pitkäranta district, Lake Ladoga, Karelia, Russia.

Name: For Apollonie Mikhailovich Loranski (1847–?), Inspector of the Mining Institute, St. Petersburg, Russia.

References: (1) Palache, C., H. Berman, and C. Frondel (1944) Dana's system of mineralogy, (7th edition), v. I, 767. (2) Fauquier, D. (1960) Sur la "wiikite" et la "loranskite". *Compt. Rendus Acad. Sci. Paris*, 250, 3032–3034 (in French).