

Crystal Data: n.d. *Point Group:* n.d. As dense, fine-grained aggregates.

Physical Properties: Hardness = 5 VHN = 372–380 (100 g load). D(meas.) = 5.283–5.420 D(calc.) = n.d.

Optical Properties: Semitransparent. *Color:* Reddish brown.
Optical Class: Biaxial (-). $\alpha = 1.911$ – 1.916 $\beta =$ n.d. $\gamma = 1.920$ – 1.932 $2V(\text{meas.}) = 81^\circ$

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

X-ray Powder Pattern: Russia.
3.09 (10), 3.41 (7), 1.98 (6), 1.948 (6), 1.908 (6), 1.723 (6), 1.667 (6)

| Chemistry: | (1) | (2) | (3) |
|-------------------|--------|-------|-------|
| UO ₃ | 63.74 | 67.37 | 66.88 |
| SiO ₂ | 0.48 | 0.97 | 3.54 |
| PbO | 0.53 | 0.55 | 0.74 |
| CaO | 2.62 | 0.40 | 0.47 |
| BaO | 21.21 | 21.14 | 17.43 |
| H ₂ O | 8.24 | 8.19 | 10.07 |
| CO ₂ | 3.20 | 0.60 | 0.39 |
| Total | 100.02 | 99.22 | 99.52 |

(1–3) Russia; respectively corresponding to BaO·1.94UO₃·4H₂O; BaO·1.75UO₃·3.4H₂O; and BaO·2UO₃·4.8H₂O.

Occurrence: In the oxidation zone of a U–Mo deposit, replacing “pitchblende” and replaced by uranophane.

Association: Uraninite, uranophane, calciouranoite, metacalciouranoite, protasite.

Distribution: From an undisclosed locality [Streltsovskoe U–Mo deposit, eastern Transbaikal] in Russia.

Name: For BARium and URANIum in the composition.

Type Material: n.d.

References: (1) Rogova, V.P., L.N. Belova, G.N. Kiziyarov, and N.N. Kuznetsova (1973) Bauranoite and metacaltsuranoite [metacalciouranoite] – new minerals of the group of hydrous uranium oxides. Zap. Vses. Mineral. Obshch., 102, 75–81 (in Russian). (2) (1973) Amer. Mineral., 58, 1111 (abs. ref. 1).