Foshallassite

\( \text{Ca}_3\text{Si}_2\text{O}_7 \cdot 3\text{H}_2\text{O}(?) \)

**Crystal Data:** Monoclinic or orthorhombic. **Point Group:** n.d. Crystals, scaly and thin plates, tabular on \{100\} and elongated and striated parallel \{001\}; as radial and spheroidal aggregates.

**Physical Properties:** Claveage: Perfect on \{100\}. Hardness = 2.5–3 D(meas.) = 2.5 D(calc.) = n.d.

**Optical Properties:** Semitransparent. Color: White. **Optical Class:** Biaxial (−). **Dispersion:** \( r < v \). \( \alpha = 1.535 \quad \beta = 1.542 \quad \gamma = 1.549 \)

2V(meas.) = 12°–18°

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

**X-ray Powder Pattern:** n.d.

**Chemistry:**

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂</td>
<td>32.65</td>
<td>35.09</td>
</tr>
<tr>
<td>RE₂O₃</td>
<td>1.89</td>
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</tr>
<tr>
<td>CaO</td>
<td>45.45</td>
<td>49.13</td>
</tr>
<tr>
<td>Na₂O</td>
<td>0.40</td>
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</tr>
<tr>
<td>H₂O⁻</td>
<td>0.16</td>
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<tr>
<td>H₂O</td>
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<td>15.78</td>
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<tr>
<td>LOI</td>
<td>16.66</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>97.21</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) Mt. Yukspor, Russia. (2) \( \text{Ca}_3\text{Si}_2\text{O}_7 \cdot 3\text{H}_2\text{O} \).

**Occurrence:** In veins.

**Association:** Calcite, mesolite.

**Distribution:** On Mt. Yukspor, Khibiny massif, Kola Peninsula, Russia.

**Name:** For its relation to *foshagite* and “centrallassite” [gyrolite].

**Type Material:** n.d.