

Whole rock chemical compositions used for geochemical modeling from samples from boreholes acquired in Itaipu Dam, Foz do Iguaçu-PR

Sample ID and location can be found in Table 1.

Further details can be found in: Titon (2016).

| | L34-b2 (Basalt) | L24-a2 (Pegmatite) |
|--------------------------------|-----------------|--------------------|
| SiO ₂ | 49.8 | 52.9 |
| TiO ₂ | 2.28 | 2.48 |
| Al ₂ O ₃ | 12.9 | 11.6 |
| FeO | 14.8 | 15.9 |
| MnO | 0.20 | 0.20 |
| MgO | 5.53 | 3.24 |
| CaO | 9.41 | 6.76 |
| Na ₂ O | 2.47 | 2.67 |
| K ₂ O | 1.01 | 1.83 |
| P ₂ O ₅ | 0.24 | 0.48 |
| LOI | 0.90 | 0.80 |
| Sum | 99.7 | 98.9 |
| mg# | 0.28 | 0.18 |
| Ba | 314 | 556 |
| Rb | 20.4 | 41.8 |
| Sr | 367 | 343 |
| Zr | 156 | 281 |
| Nb | 13.1 | 28.8 |
| Ni | 24.9 | n.d. |
| Co | 43.2 | n.d. |
| Zn | 63.0 | 101 |
| Cr | 150 | n.d. |
| Y | 26.0 | 44.1 |
| Ta | 0.80 | n.d. |
| Hf | 4.30 | 7.30 |
| Ga | 17.7 | n.d. |
| Th | 2.60 | 4.80 |
| U | 0.40 | 0.90 |
| V | 485 | n.d. |
| Mo | 0.30 | n.d. |
| Cu | 206 | n.d. |
| Pb | 0.70 | 6.50 |
| La | 22.1 | 39.7 |
| Ce | 46.2 | 85.5 |
| Pr | 5.90 | 10.7 |
| Nd | 24.6 | 42.7 |
| Sm | 5.30 | 9.70 |
| Eu | 1.80 | 2.90 |
| Gd | 5.40 | 8.80 |
| Tb | 0.90 | 1.40 |
| Dy | 5.20 | 8.30 |
| Ho | 1.10 | 1.80 |
| Er | 3.00 | 4.50 |
| Tm | 0.40 | 0.70 |
| Yb | 2.50 | 4.10 |
| Lu | 0.40 | 0.60 |

n.d.: non-determined