

## **Magma Dynamics and Cooling in Sub-volcanic intrusions: Insights on eruption potential from Finite Element Modeling**

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### **SUPPLEMENTARY INFORMATION**

**TABLE 1**

Average composition of Cordon Caulle silicic magma (Castro et al., 2013):

| <b>Element</b>                     | <b>wt. %</b> |
|------------------------------------|--------------|
| SiO <sub>2</sub>                   | 69.60        |
| TiO <sub>2</sub>                   | 0.70         |
| Al <sub>2</sub> O <sub>3</sub>     | 14.30        |
| Fe <sub>2</sub> O <sub>3</sub> (t) | 4.56         |
| MnO                                | 0.11         |
| MgO                                | 0.54         |
| CaO                                | 2.23         |
| Na <sub>2</sub> O                  | 5.14         |
| K <sub>2</sub> O                   | 2.75         |
| P <sub>2</sub> O <sub>5</sub>      | 0.11         |

Castro JM, Schipper CI, Mueller SP, et al (2013) Storage and eruption of near-liquidus rhyolite magma at Cordón Caulle, Chile. Bull Volcanol 75:702. <https://doi.org/10.1007/s00445-013-0702-9>