

The genesis and distribution of fine grained aggregates in Ichinomegata mantle xenolith

Hidekazu Hatakeyama[1], Tsuyoshi Miyamoto[2], Hirokazu Fujimaki[3]

[1] Inst. Min.Pet.Econ.Geol.Tohoku Univ., [2] CNEAS,Tohoku U, [3] Inst. Min. Pet. Econ. Geol., Tohoku Univ.

Ichinomegata is located in the northwest Oga peninsula, Akita prefecture. This study is explored Ichinomegata xenoliths included by andesite on the surface. This xenolith has regularities of mineral assemblage and distribution of a fine grained layer and fine grained aggregates. The purpose of this study is to solve their formation of characteristic textures.

As the result, it is possible to explain the genesis of a fine grained layer and fine grained aggregates, which aren't formed by reaction between andestic melt and peridotite but are affected by heat (and water) from outside, from their distribution, texture and mineral assemblage.