

Morphological features of contacts of the mafic and the felsic rocks in the Saga-Futagoyama mixed lava

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Morphology of contacts of a mafic lava and a silicic lava is observed in a basalt-rhyolite composite lava of the Saga-Futagoyama volcanic rocks at northwest Kyushu, in southwest Japan. Their contacts have two common features. One is that the mafic lava has spheric or blunt shapes against the silicic lava when the mafic lava contacts with the silicic lava as a lava block or inclusions. The other is that the silicic lava has sharp lens or cusp shapes against the mafic lava. Quench rims of the mafic inclusion in the silicic lava and sub-inclusions in silicic lens in the mafic lava indicate that the morphological asymmetry between the mafic lava and the silicic lava is generated by mechanical interactions between the mafic and the silicic magmas.