

Lavaflow Complex La Palma (Canary Islands) Cheat Sheet by Isabella Huang via cheatography.com/162156/cs/33957/

Newton Law

Scheerspannung (\tau)

Dynamische Viskosität (\eta)

Scheergeschwindigkeit (\gamma)

Dependece of morphology of a Lavaflow

rate of effusion (it defines max. length of lavaflow)

interaction between lava & environment

Physical and Chemical properties of Lava

temperature
rate of effusion
crystal & gas content
topography

Two types of Lava

Pahoeh- smooth, ropy surface (create oe-Lava multiple flow lobes)

VS.

Aa-Lava rough, jagged, spiny (clinkery)

Pahoehoe-Lava:

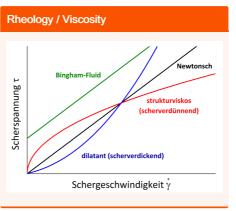
erupted at higher temperature & therefore beeing less viscous

Aa-Lava:

tends to be more viscous but generally advances faster than Pahoehoe-Lava

By Isabella Huang cheatography.com/isabellahuang/

Rheology / Viscosity Shear The higher the shearstress the lower the viscosity thinning Shear The higher the shearstress the higher the viscosity thickening (starch in water) Stoke's Law can be applied Newtonian (water, oils, air) Non (blood, ketchup, etc.) newtonian Bingham Yield stress needs to be



exceeded before fluid will flow

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