

Abstract:

Hydraulic Binder

In an alkali activated hydraulic binder containing slags and aluminium silicates slag, in particular furnace slag in amounts from $\geq 20\%$ (w/w), aluminium silicates different from furnace slag such as for example flue-ash and natural aluminium silicates, such as for example basalt, clays, marl, andesite or zeolite, in amounts from 5 to 75% (w/w) and an alkali activator in an amount, which corresponds to a Na_2O equivalent defined as $(\text{Na}_2\text{O} + 0,658 \text{ K}_2\text{O})$ (ASTM C 150) between 0,7 and 4% (w/w), respectively related to the entire mixture are present in the mixture as constitutive components.