

ABSTRACT

Provided is a cement composition, and a process for producing a cement composition, in which the amount of water required for normal consistency of cement paste and the water content of concrete can be reduced and the fluidity of mortar and concrete can be improved even if using waste such as coal ash or soil generated by construction work. The cement composition has the Sr content of 0.065 mass% to 1.0 mass% and the MgO content of greater than 1.0 mass% to 3.0 mass%. The process for producing a cement composition comprises a step (A) of adjusting the basic raw material units of raw materials selected from the group consisting of limestone, silica stone, coal ash, clay, blast furnace slag, soil generated by construction work, sewage sludge, hydrocane and iron sources so that the cement composition has the Sr content of 0.065 mass% to 1.0 mass% and the MgO content of greater than 1.0 mass% to 3.0 mass%, blending the adjusted raw materials and burning to produce cement clinker, and a step (B) of mixing the cement clinker with gypsum and an admixture of limestone and blast furnace slag followed by grinding.