

[ABSTRACT]

The present invention is a cement composition for ground improvement, which contains at least fly ash that satisfies all of conditions (F1) to (F5) below and Portland cement, wherein a content of the fly ash is 10 to 40 mass% when a total amount of the fly ash and the Portland cement is 100 mass%:

(F1) a Blaine specific surface area of the fly ash is 2500 to 6000 cm^2/g ;

(F2) a mass reduction rate of the fly ash is 5 mass% or less after the fly ash is heated for 15 minutes at a temperature of $975 \pm 25^\circ\text{C}$;

(F3) a content of SiO_2 in the fly ash is 50 mass% or more;

(F4) in the fly ash, a sphere equivalent specific surface area of particles in which iron oxide and an amorphous substance are mixed is 2800 to 11,000 cm^2/cm^3 ; and

(F5) in the fly ash, a sphere equivalent specific surface area of amorphous particles containing Ca (calcium) is 2100 to 22,500 cm^2/cm^3 .

[Selected Drawing] None