CLAIMS

1. A cement composition having a Sr content of 0.02 to 0.06% by mass and a Mo content of 0.0002 to 0.0023% by mass.

2. The cement composition according to claim 1, which has an R_2O content of 0.3 to 0.6% by mass.

3. The cement composition according to claim 1 or 2, which has a MgO content of 0.7 to 1.8% by mass and a SO_3 content of 1.6 to 2.5% by mass.

4. The cement composition according to any one of claims 1 to 3, which has a C_3S content of 45 to 70% by mass, a C_2S content of 5 to 25% by mass, a C_3A content of 6 to 15% by mass, and a C_4AF content of 7 to 15% by mass.

5. A method for producing a cement composition, the method comprising the steps of:

(A) controlling the raw material unit consumption of a raw material for cement clinker selected from the group consisting of limestone, silica, coal ash, clay, blast furnace slag, soil generated by construction, sewage sludge, a hydrocake, and an iron source so that the resultant cement composition has a Sr content of 0.02 to 0.06% by mass and a Mo content of 0.0002 to 0.0023% by mass, and subjecting the raw material having the controlled unit consumption to calcination to produce a cement clinker; and

(B) pulverizing the cement clinker together with gypsum, and limestone and blast furnace slag as additive materials.

6. The method according to claim 5, wherein, as the raw material for cement clinker in the step (A), 700 to 1,400 kg of limestone, 20 to 150 kg of silica, 0 to 300 kg of coal ash, 0 to 100 kg of clay, 0 to 100 kg of blast furnace slag, 10 to 150 kg of soil generated by construction, 0 to 100 kg of sewage sludge, 0 to 100 kg of a hydrocake, and 30 to 80 kg of an iron source are mixed per 1 ton of the cement clinker.

Claims

[Claim 1]

A cement composition having a Sr content of 0.02 to 0.06% by mass, a Mo content of 0.0002 to 0.0023% by mass, a C_3S content of 45 to 70% by mass, a C_2S content of 5 to 25% by mass, a C_3A content of 6 to 15% by mass, and a C_4AF content of 7 to 15% by mass.

[Claim 2]

The cement composition according to claim 1, which has an R_2O content of 0.3 to 0.6% by mass.

[Claim 3]

The cement composition according to claim 1 or 2, which has a MgO content of 0.7 to 1.8% by mass and a SO_3 content of 1.6 to 2.5% by mass.

[Claim 4]

A method for producing a cement composition, the method comprising the steps of:

(A) controlling the raw material unit consumption of a raw material selected from the group consisting of limestone, silica

stone, coal ash, clay, blast furnace slag, soil generated by construction, sewage sludge, a hydrocake, and an iron source so that the resultant cement composition has a Sr content of 0.02 to 0.06% by mass, a Mo content of 0.0002 to 0.0023% by mass, a C_3S content of 45 to 70% by mass, a C_2S content of 5 to 25% by mass, a C_3A content of 6 to 15% by mass, and a C_4AF content of 7 to 15% by mass, and subjecting the raw material having the controlled unit consumption to calcination to produce a cement clinker; and

(B) pulverizing the cement clinker, together with gypsum, and with limestone and blast furnace slag as additive materials.

[Claim 5]

The method for producing a cement composition according to claim 4, wherein, as the raw materials for the cement clinker in the step (A), 700 to 1,400 kg of limestone, 20 to 150 kg of silica stone, 0 to 300 kg of coal ash, 0 to 100 kg of clay, 0 to 100 kg of blast furnace slag, 10 to 150 kg of soil generated by construction, 0 to 100 kg of sewage sludge, 0 to 100 kg of a hydrocake, and 30 to 80 kg of an iron source are mixed per 1 ton of the cement clinker.