What is claimed is:

1. A production method for Portland cement clinker including C_3A and C_4AF in total from 22 to 40 mass % calculated by Bogue's formulas and having an iron modulus (I.M.) of 0.8 to 1.3, carrying out a step for cooling raw materials of the Portland cement clinker after burning the raw materials at 1300 to 1400 degree Celsius, being characterized by,

in said cooling step, cooling the raw materials after the burning at a cooling rate of 20 degree Celsius or lower at least to 1200 degree Celsius and then quenching the raw materials from at lowest 1000 degree Celsius.

2. A production method for Portland cement from the Portland cement clinker produced according to claim 1, being characterized in that pulverizing the Portland cement clinker with gypsum or that pulverizing the Portland cement clinker and then mixing with gypsum.

3. The production method for Portland cement according to claim 2, being characterized in that mixing the Portland cement clinker further with at least one of blast furnace slag, limestone, fly ash, and siliceous admixture.

4. A Portland cement clinker powder, including C_3A and C_4AF in total from 22 to 40 mass % calculated by Bogue's formulas, having an iron modulus (I.M.) of 0.8 to 1.3, having a Blaine specific surface area of 2800 to 4500 cm^2/g, and having an L value of at least 50 in Lab color system.

5. The production method for Portland cement clinker according to claim 1, being characterized in that burning the raw materials in a rotary kiln and cooling in a clinker-cooler.

6. The Portland cement clinker powder according to claim 4, being characterized in that the Portland cement clinker powder is obtainable by burning raw materials of the Portland cement clinker at 1300 to 1400 degree Celsius, and cooling the burned raw materials at a cooling rate of 20 degree Celsius or lower at least to 1200 degree Celsius and then quenching from at lowest 1000 degree Celsius.