

Chemical Composition of Cement

The raw materials used for the manufacture of cement consist mainly of lime, silica, alumina and iron oxides. These oxides interact with one another in the kiln at high temperatures to form more complex compounds. The relative proportions of these oxide compositions are responsible for influencing the various properties of cement; in addition to rate of setting and fineness of grinding. Table 1.4 shows the approximate oxide composition limits of ordinary Portland cement.

Table 1.4. Approximate Oxide Composition Limits of Ordinary Portland Cement

Oxide	Percentage limit
CaO	60-67
SiO ₂	17-23
Al ₂ O ₃	3.0-6.0
Fe ₂ O ₃	0.5-6.0
MgO	0.1-6.0
Alumina (Al ₂ O ₃ + MgO)	0.4-1.2
SO ₃	1.0-3.0

The identification of the major compounds of cement is largely based on Bogue's equations and hence it is called "Bogue's Compounds". The four compounds usually regarded as major compounds are listed in table 1.5.

Table 1.5. Major compounds of cement

Name of Compound	Formula	Abbreviated Formula
Tetracalcium silicate	4 CaO.SiO ₂	C ₄ S
Dicalcium silicate	2 CaO.SiO ₂	C ₂ S
Tricalcium aluminate	3 CaO.Al ₂ O ₃	C ₃ A
Tetracalcium aluminosilicate	4 CaO.Al ₂ O ₃ .SiO ₂	C ₄ AF

It is to be noted that for simplicity's sake abbreviated notations are used. C' stands for CaO, S stands for SiO₂, A for Al₂O₃, F for Fe₂O₃ and H for H₂O. The equations suggested by Bogue for calculating the percentages of major compounds are given below.

$$C_4S = 0.807 (CaO) - 1.40 (SiO_2) - 0.72 (Al_2O_3) - 1.43 (Fe_2O_3) - 2.85 (SO_3)$$

$$C_2S = 2.87 (SiO_2) - 0.704 (CaO - SiO_2)$$

$$C_3A = 2.85 (Al_2O_3) - 1.40 (Fe_2O_3)$$

Chemical Composition Of Cement University Of Babylon

Karin Nielsen-Saines



Chemical Composition Of Cement University Of Babylon:

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