

## **PORTLAND CEMENT**

### **SPECIFICATIONS:**

ORDINARY GREY PORTLAND CEMENT GRADE 42.5 CONFORMING TO STANDARD GB175-1999  
HAVING CHEMICAL PROPERTIES:

L.O.I.	:	MAX 5.0
MGO	:	MAX 5.0
SO <sub>3</sub>	:	MAX 3.5
FINENESS	:	0.08MM SIEVE MAX 10
SOUNDNESS	:	SOUND SETTING TIME
INITIAL SET	:	MIN 45 MINUTES
FINAL SET	:	MAX 10 HOURS
COMPRESSIVE STRENGTH	:	
3 DAYS	:	21 MPA ,
28 DAYS	:	42.5 MPA
BENDING STRENGTH	:	
3 DAYS	:	4.0 MPA,
28 DAYS	:	6.5 MPA

### **WHAT IS CEMENT?**

Portland (constructional) Cement is a fine powder mixture of various minerals. It is produced by mixing calcareous minerals such as chalk, limestone containing silica and alumina and heating it to 1450 deg C when it cools a clinker is formed. This clinker is then finely ground and mixed with small quantity 3-5% of gypsum which has calcium sulphate in it. The amount of gypsum controls the physical properties of the eventual concrete. Sometimes very minute quantities of pigments are also added. Cement producing processes do however vary.

### **CEMENT FORMULA:**

This formula is a very complex and no one really knows the nature and complexities of chemical/physical reactions of mixtures of cement with water (hydration)

### **COUNTRY OF ORIGIN:**

- China
- Italy
- Others

### **PACKING:**

- 50 Bags (Paper or Poly bags)