


CEM I 42,5 R


**TECHNICAL
DATA SHEET**

Product Name

Portland Cement

Related Standard

NT 47.01 (2017)

Packaging

Bag: 50 kg / Bulk: 25 Tones

Delivery and Reception conditions

NT 47.16 (1998)

Recommended Application

- Precast reinforced concrete with or without steaming.
- Paving and concrete pavements.
- Pre-stressed concrete manufactured conditions normal productivity.
- Works tiled or coating sol.
- Concrete ready for use.

Composition

Clinker	≥ 95%
Secondary component	≤ 5%
Calcium sulfate setting regulator	

Characteristics

- Fast development of mechanical resistance.
- Normal growth of mechanical resistance.

Attributes

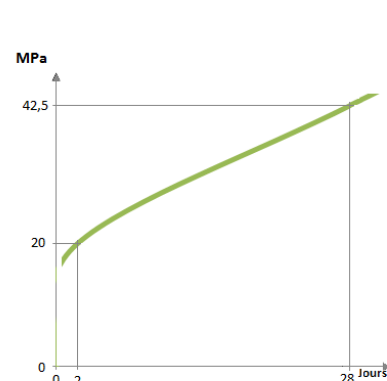
Mechanical and Physical

Initial setting time - (min)	≥ 60
Soundness (Expansion) - (mm)	≤ 10
Early strength (2 days) - (MPa)	≥ 20
Final strength (28 days) - (MPa)	≥ 42.5

Chemical

Sulfate content (SO ₃)	≤ 3.5%
Chloride content (Cl)	≤ 0.1%
Loss on ignition (LOI)	≤ 5.0%
Insoluble residue (IR)	≤ 5.0%

Compression Mechanical Strength



Minimum growth curve

Caution measures

- With **dosage** and the **water/cement ratio**.
- During the curing process, concrete must be **kept moist** and prevent its drying.