

GREY CEMENT CEM I 42.5 R

STANDARD NA 442 (2013) / CE / EN 197-1 (2011)

STRENGTH AT 28 DAYS

≥ 42.5 MPa

FINENESS

3200 - 3800 cm²/g

PACKAGING

Bulk

UPDATED

May 2026

OVERVIEW

Portland cement for high-performance concrete with rapid early strength development, specially designed for applications requiring short formwork removal times. It is particularly recommended for concreting in cold weather conditions.

RECOMMENDED APPLICATIONS

- Concrete products requiring rapid strength development.
- Slipform concreting, especially during cold weather.
- Frost-resistant concrete exposed to de-icing salts.
- Bridge decks.
- Pumped concrete.
- Shotcrete (sprayed concrete).
- High-strength reinforced concrete.
- Self-compacting concrete.

CHEMICAL ANALYSIS

Sulphur Trioxide (SO ₃)	< 2.5 %
Chloride content (Cl)	< 0.1 %
Magnesium Oxide (MgO)	< 1 %
Loss On Ignition (LOI)	0.5 - 1.5 %

CLINKER MINERALOGICAL COMPOSITION (BOGUE)

C ₃ S	60 ± 3 %
C ₃ A	> 7 - 8 %

PHYSICAL PROPERTIES

Normal Consistency	26 to 28 %
Start of setting (minutes)	≥ 60 min
Expansion (mm)	< 5 mm
Fineness (SSB)	3200 - 3800 cm ² /g

COMPRESSIVE STRENGTH

7 days (EN 196-1)	≥ 20 MPa
28 days (EN 196-1)	≥ 42.5 MPa

Typical average values.