

# GREY CEMENT CEM I 52.5 N

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

## STRENGTH AT 28 DAYS

≥ 52.5 MPa

## FINENESS

3200 - 3800 cm<sup>2</sup>/g

## PACKAGING

Bulk

## UPDATED

May 2026

## OVERVIEW

**Grey Portland cement** with high mechanical resistance and high performance, especially for major infrastructure works and superstructures. Compliant with the Algerian Standard NA 442-2013 and CE Standard (EN 197-1).

## DOMAINS OF APPLICATION

- Major works requiring high mechanical resistance and high performance.
- Infrastructure works (foundations) and superstructures requiring rapid formwork removal to optimize delivery times.
- Heavy and light prefabrication work.
- Buildings and structures.
- Ideal for cold weather concreting.

## CHEMICAL ANALYSIS

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

## CLINKER MINERALOGICAL COMPOSITION (BOGUE)

|                  |           |
|------------------|-----------|
| C <sub>3</sub> S | ≥ 60 %    |
| C <sub>3</sub> A | 3 - 7.5 % |

## PHYSICAL PROPERTIES

|                            |                                |
|----------------------------|--------------------------------|
| Normal Consistency         | 26 to 28 %                     |
| Start of setting (minutes) | ≥ 45 min                       |
| Hot expansion (mm)         | < 5 mm                         |
| Fineness (SSB)             | 3200 - 3800 cm <sup>2</sup> /g |

## COMPRESSIVE STRENGTH

|                    |            |
|--------------------|------------|
| 7 days (EN 196-1)  | ≥ 20 MPa   |
| 28 days (EN 196-1) | ≥ 52.5 MPa |

Typical average values.