

GREY CEMENT CEM I 42.5 N LH / SR5

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

STRENGTH AT 28 DAYS
≥ 42.5 N/mm² & 62.5
N/mm²FINENESS
3200 - 3800 cm²/gPACKAGING
BulkUPDATED
May 2026

OVERVIEW

Sulfate-Resistant Cement, combining excellent resistance to aggressive environments with low heat of hydration (LH – Low Heat). Recommended for structures exposed to high-sulphate environments, it complies with Algerian Standard NA 442-2013 and European Standard EN 197-1 (CE marking).

RECOMMENDED APPLICATIONS

- Foundation, underground and sewerage works.
- Reinforced and plain concrete, including precast, prestressed, steam-cured and self-cured concrete.
- Ready-mix concrete.
- Civil engineering works, including infrastructure and road construction.
- Building construction, including residential, commercial and industrial buildings.
- Maritime and hydraulic works, including desalination and water treatment facilities.
- Construction works in aggressive environments.

CHEMICAL ANALYSIS

Sulphur Trioxide (SO ₃)	≤ 3 %
Chloride content (Cl)	≤ 0.1 %
Magnesium Oxide (MgO)	< 1 %
Loss On Ignition (LOI)	≤ 5 %
Insoluble Residue	≤ 5 %

CLINKER MINERALOGICAL COMPOSITION (BOGUE)

C ₃ S	≥ 60 %
C ₃ A	≤ 5 %

PHYSICAL PROPERTIES

Normal Consistency	26 to 28 %
Initial Setting Time Measured on Neat Cement Paste	≥ 60 min
Soundness Measured on Neat Cement Paste Specimen	≤ 10 mm
Heat of Hydration	≤ 270 J/g
Hot expansion (mm)	< 5 mm
Fineness (SSB)	3200 - 3800 cm ² /g

COMPRESSIVE STRENGTH

7 days (EN 196-1)	≥ 10 N/mm ²
28 days (EN 196-1)	≥ 42.5 N/mm ² & 62.5 N/mm ²

Typical average values.