CEM I-42.5 N-SR 3



SULPHATE RESISTANT CEMENT



UP NT 47.01 NT 47.25

50 Kg

CE

ARTHAGE

CEMENT FOR WORK IN HIGH SULFATE ENVIRONMENTS. HIS PERFORMANCES GIVE IT A PROPER USE FOR READY-MIXED CONCRETE DEVELOPMENT IN EMPLOYMENT AND PRECAST ELEMENTS IN AGGRESSIVE ENVIRONMENTS.

1 - STANDARDS AND SPECIFICATIONS :

The Tunisian standard NT 47.01/NT 47.26. The european standard : EN 197-1 : 2011

2 - PROPERTIES :

• High Sulphate and Seawater Resistant:

The limited C3A value \leq 3% ensures maximum resistance to attack sulfated parcel and seawater.

• High mechanical strength :

Short-term resistances values (2-7 days) and those commons (28 days) allow the obtaining of a high strength concrete.

6 - COMPONENTS :

• Below constituents used without consideration of gypsum.

Limestone	Clinker
≤ 5%	95-100

NB : Gypsum content $\leq 5\%$

7 - CHIMICAL CHARACTERISTICS AND MINERALOGICAL :

СЗА	C4AF+2C3A	PF	RI	MgO	SO 3	CI	
≤ 3%	≤ 20%	≤ 5%	≤ 0.75%	≤5%	≤3%	≤ 0.1%	

8 - PHYSICAL AND MECHANICAL CHARACTERISTICS :

Starting setting time	≥180 min
Stability	≤10 mm
Strenght 28 days	≥ 42.5 MPa et ≤62.5 MPa
Early strenght (2 days)	>20 MPa
Blaine Specific Surface area SSB	≥3000 cm²/g

• Low alkaline content :

This characteristic allows the ability to be used with potentially reactive aggregates before alkalis.

Limited SSB- Blaine :

Allows the development of a concrete with a small amount of water to maintain its plasticity and reduce the risk of shrinkage.

3 - PACKAGING :

- Bag of 50 Kg on the pallets or / and flatbed truck .
- ♦ Bulk.

4 - APPLICATIONS :

- Slurry tanks.
- Aquaculture.
- Civil engineering works (ground gypsum, salt water, sewage water, sewers, ports ...).
- Work terrain.
- Works in pure water.
- Great works (dam, etc. ...).
- Light Concrete.
- Prefabricated- Precast concrete.
- Prestressed concrete.

5 - CAUTIONS FOR IMPLEMENTATION :

- Respect the dosages according to the type of structure.
- Use clean water, unsalted and unsweetened.
- Use suitable, clean aggregates for making concrete and mortar.

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