



PORTLAND CEMENT



1-STANDARDS AND SPECIFICATIONS :

The Tunisian standard NT 47-01.

2-PACKAGING :

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

3-APPLICATIONS :

- ◆ Current Concrete foundation, filling, deferred stripping.
- ◆ Heavy Works (dam, etc. ...).
- ◆ Work requiring exceptional mechanical performance.
- ◆ Regular work reinforced concrete.
- ◆ Highly stressed reinforced concrete (supporting structures).
- ◆ Concrete ready for use.
- ◆ Concrete road.
- ◆ Prefabricated- Precast concrete.
- ◆ Civil engineering works for industrial uses.

4-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.

5 - COMPONENTS :

	Limestone	Clinker
Min	3%	95%
Max	5%	100%

NB: Gypsum content \leq 5%

6 - CHIMICAL CHARACTERISTICS AND MINERALOGICAL :

CaO	SiO ₂	AL ₂ O ₃	Fe ₂ O ₃	MgO	K ₂ O	Na ₂ O	SO ₃	LOI 975C°
\geq 60 %	\geq 17%	\geq 4%	\geq 3%	\leq 5%	< 1%	< 1%	\leq 3.5%	\leq 0.1%

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Values	\leq 5%	\leq 0.1%

7 - PHYSICAL AND MECHANICAL CHARACTERISTICS :

Starting setting time	\geq 60 min
Stability	\leq 10 mm
Strenght 28 days	\geq 42.5 MPa et \leq 62.5 MPa
Early strenght (2 days)	$>$ 10 MPa
Blaine Specific Surface area SSB	\geq 3200 cm ² /g