

# CEM IV/B (V) 32,5 N-SR

UNE-EN 197-1



## Recommended

- Constructions in mass or reinforced concrete in chemically aggressive environments
- Roller-compacted concrete
- Concrete with reactive aggregates
- Soil stabilisation, road bases and mass foundations

## ■ Contraindicated

- Prestressed concrete
- Concrete for rapid demoulding or removal of formwork or falsework
- Concrete for prefabricated prestressed structural elements

## ■ Precautions

- Care in storage
- Use high dosages and a low water/cement ratio
- Cure adequately and for an extended period, avoiding desiccation in the initial hardening period
- Avoid rapid removal of formwork

Available in bulk

# TYPE CEM IV

August 2020



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UNE-EN 197-1: 2011

## ■ Components

- Clinker: 45 - 64% by mass.
- Fly ash: 36 - 55% by mass.
- Additional components: 0 - 5% by mass.

These values exclude the setting regulator and additives.

## ■ Physical properties

- Initial setting time  $\geq 75$  minutes.
- End of setting  $\leq 12$  hours, according to Spanish Cement Reception Instruction RC-16.  
Not specified in Standard UNE-EN 197-1.
- Expansion: (Le Chatelier)  $\leq 10$  millimetres.

## ■ Chemical properties

- $\text{SO}_3$ :  $\leq 3.0\%$
- Cl:  $\leq 0.10\%$

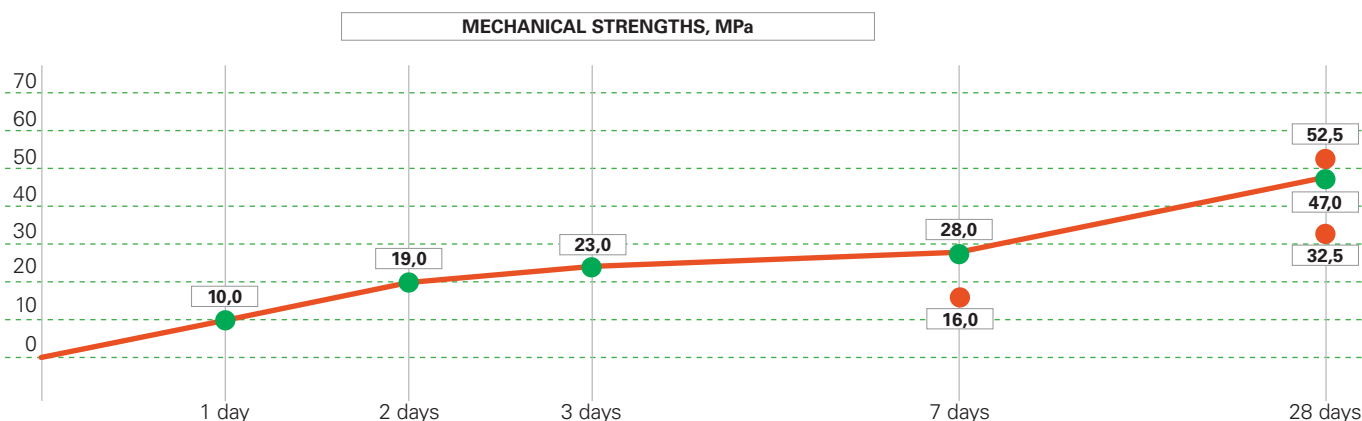
## ■ Mechanical properties

(Compressive strength in normalised mortar)

- 7 days:  $\geq 16.0$  MPa
- 28 days:  $\geq 32.5$  MPa.  
 $\leq 52,5$  MPa.

## ■ Properties relative to clinker

- $\text{C}_3\text{A} \leq 9,0\%$



● Minimum standard

● CEM IV/B (V) 32,5 N-SR Average results obtained in Cementos Lemona

\*The indicated average strengths are given solely as a guideline, and should not be considered as an additional warranty or different from the standard itself.