

SUPER DRAGON

Portland Cement

MAY - 2024

EN 197-1
CEMI 52,5 R

Description

Our SUPER DRAGON is a high strength cement, designed principally for the precast concrete industry.

Its main features are:

- High initial and final strengths.
- Rapid hardening, even in cold weather.

Recommended for

- Reinforced concrete.
- Pre-stressed concrete.
- High-resistance concrete.
- Precast in general, especially in structural elements, whether pre-stressed or not.
- Concrete for rapid removal of formwork and mouldings even in cold weather.

Cement Features

	Typical values	Specifications according to standard
Clinker (%)	96	min. 95 - max. 100
Minor additional component (%)	4	min. 0 - max. 5
CHEMICAL		
Lost of ignition (%)	2,8	max. 5,0
Sulphate, SO ₃ (%)	2,9	max. 4,0
Chloride, Cl- (%)	0,04	max. 0,10
Insoluble residue(%)	0,5	max. 5,0
Na ₂ O _{eq}	0,68	max. 0,8
PHYSICAL		
Blaine specific surface (cm ² /g)	4900	
Soundness Le Chatelier (mm)	0,5	max. 10
Initial setting time (min)	120	min. 45
MECHANICAL		
2 days compressive strength (MPa)	41	min. 30,0
28 days compressive strength (MPa)	62	min. 52,5

Not suitable for

- Compacted dry concrete.
- Concrete with rapid potentially reactive aggregates exposed to aggressive environments.

Worksite precautions

Given the high clinker content of this cement and its high reactivity, it is very important to maximize the curing of the end product processes, especially in hot, dry and occasionally windy climates.

Shipping and Storage

- Available in bulk and in 25 Kg bags.
- The bags must be stored in dry and ventilated places. They must be protected from ground and atmospheric moisture.
- Bulk cement must be stored in watertight silos.

Environmental Note

Since 2009, at our factory in Sant Vicenç dels Horts (Barcelona), the implementation of new technologies in the production line, the use of alternative fuels, and improvements in the use of additions and grinding additives in our cements have allowed us to achieve a significant reduction in CO₂ emissions.

In this Portland cement, CO₂ emissions have been reduced by 5% per ton, calculated for Scope I and compared to this same cement from 2020.

This cement is manufactured with clinker aligned with European taxonomy.

If you need more information, please request it from us. AENOR certifies the compliance of this cement with the specifications of the UNE-EN 197-1 standard (common cements), evaluating it according to the established regulations in the Specific Regulation RP 15.01 (N Mark). Therefore, it also has the corresponding CE conformity certificate. This cement contains a chromium (VI) reducing agent. AENOR also certifies compliance with the regulatory limit for the content of Cr (VI) soluble in water according to the UNE-EN 196-10 standard.

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