

Technical Data Sheet

Termocem 32,5 N-LH

CEM III/A 32,5 N-LH



Description

Termocem 32,5 N-LH is a blastfurnace slag cement

Composition

In compliance with the chemical composition requirements specified in UNI EN standard 197-1, the product has a clinker content ranging from 35% to 64% by cement mass, excluding calcium sulphate and additives, 36%-65% granulated blast furnace slag and 0%-5% of minor constituents.

Standard Requirements

Chemical requirements *

Loss on ignition	≤ 5,0%
Insoluble Residue	≤ 5,0%
Sulphates (as SO ₃)	≤ 4,0%
Chlorides **	≤ 0,10%

** Cement may have a chloride content in excess of 0.10%; if that is the case, the actual chloride content shall be declared.

Physical requirements *

Heat of hydration	≤ 270 J/g
Initial setting time	≥ 75 min
Expansion	≤ 10 mm

Mechanical requirements *

Compressive strength	at 7 days	≥ 16,0 MPa
	at 28 days	≥ 32,5 MPa ≤ 52,5 MPa

* Characteristic values

Applications

High early compressive strength combined with resistance to chemical attack and low heat of hydration make the product the best choice for:

- works and structures set in river and maritime areas
- works involving the use of both plain and reinforced concrete that require high final strength when set in chemically aggressive environments
- massive structures
- tall or slender cast-on-site non-prestressed structures
- foundation structures
- industrial floors
- precast elements (e.g. manholes and pipes)
- water treatment systems (for moderate sulphate concentrations)
- roads, highways and parking lots
- road bases and soil stabilization
- airport runways

Benefits

The content in granulated blastfurnace slag (from 36 to 65%) makes the product resistant to chemical attack. The product is recommended for construction of structures exposed to moderately aggressive environments (aggressive CO₂ and chlorides), including sulphate attack and solubilization by water leaching, and in contact with glycerides (oils and fats).

The low amount of hydration heat evolved by an LH cement permits building massive structures and, more generally, works for which a low hydration-heat cement is prescribed. The smaller amount of heat of hydration evolved at equal strength class, which is typically of all blastfurnace cement types, is guaranteed by the LH classification of this cement.

Precautionary measures

Blastfurnace slag cement is sensitive to low temperatures. Cold climate conditions actually cause both hardening reaction rates and early strength development to slow down. In cold weather, it is therefore advisable to increase the cement content and/or to use chloride-free set accelerating admixtures.

For professional use only. The user is advised to conduct tests and assessments in order to define the suitability of the product for the intended application.

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