

Märker Zement

Technical Data Sheet

Blastfurnace cement CEM III/A 32,5 N - LH

Märker Portland Cement CEM III/A 32,5 N - LH is produced by mixing cement with a selected blastfurnace slag meal, optimised and matched to each other. Granulated blastfurnace slag, which is obtained during iron smelting, has latent hydraulic properties. When used with Portland cement clinker, the granulated blastfurnace slag gives **Märker blastfurnace cement CEM III/A 32,5 N - LH** its special properties. Compared with Portland cements, **Märker blastfurnace cement CEM III/A 32,5 N - LH** is characterised by an increased resistance against sulfate-containing water and in addition, due to its optimized composition, it is characterized by a low hydration heat development.

Composition: Portland cement clinker, 36-65 % blastfurnace slag meal, sulfate agents to regulate the setting, up to 5 % inorganic mineral substances to improve the physical properties.

Properties: Low level of hydration heat development
Slow strength development
Good hardening

Applications: Production of:
Concrete, reinforced and prestressed concrete according to EN 206-1 / German norm DIN 1045-2
Prestressed concrete according to German norm DIN 1045-1
Hydraulic / civil / foundation engineering
(Drill-foundation piles according to EN 1536, DIN technical report 129)
Concrete for massive structural components

Recommended compressive strength: C 8/10 to C 30/37

In order to achieve unerringly and economically the required fresh and hardened concrete properties the concrete composition is to be determined by an initial type-testing which should take place in good time before the start of concreting.

Miscibility: can be mixed with all cements complying with EN 197, but **not** with gypsum or gypsum products.

Technical standard: Cement as specified in EN 197

Quality control: in-house monitoring, and external quality control in accordance with EN 197 by the Research Institute of the Cement Industry, Düsseldorf, Germany.

Supply: in bulk in silo trucks
Low-chromate cement in accordance with REGULATION (EC) No 1907/2006

Storage: Cement should be stored under suitable dry conditions protected from moisture and humidity

(1) Additional technical terms of contract and guidelines for civil engineering works
(German designation: ZTV-ING)
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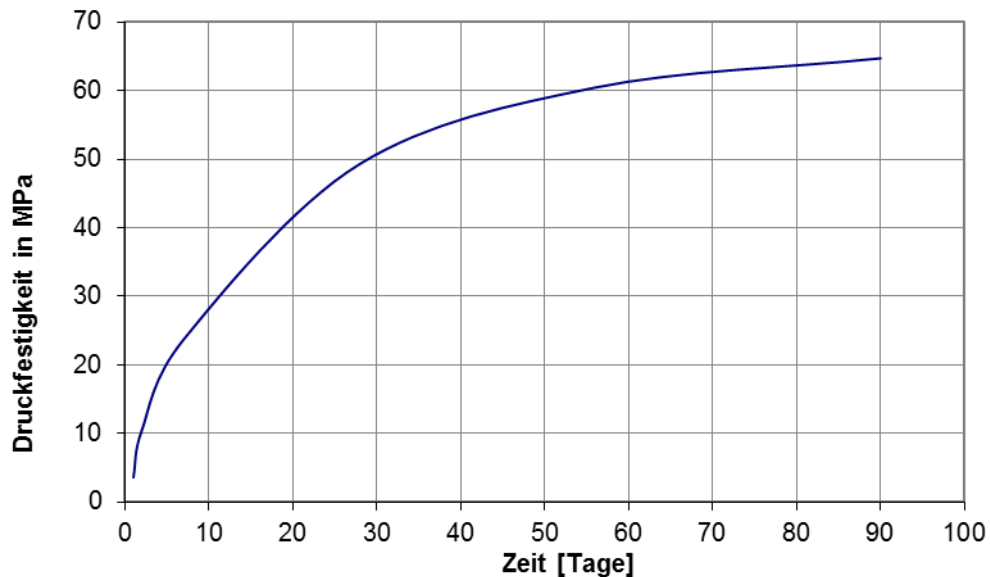
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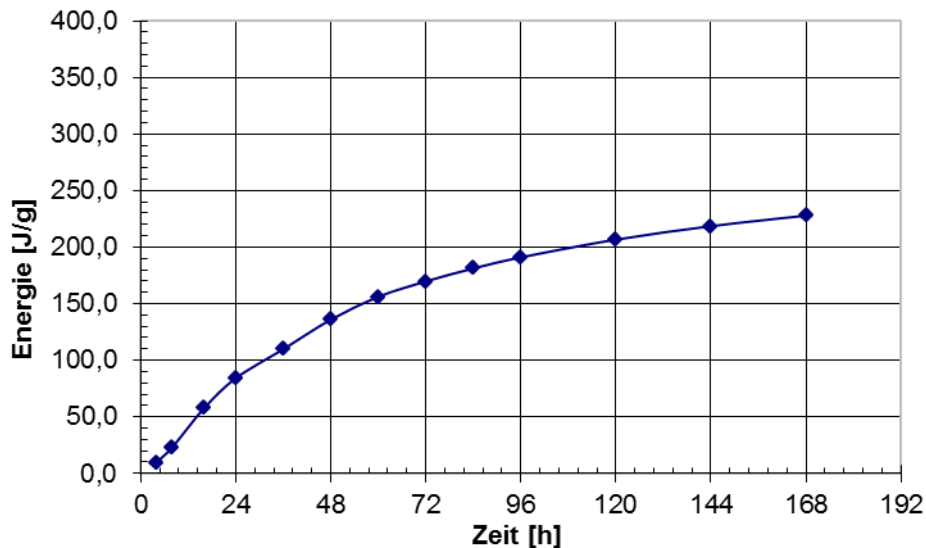
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Development of compressive strength [Druckfestigkeit] based on duration [Tage] = days



Evolution of hydration heat (Energie) based on time [Zeit] = time



Regarding the handling of our products please refer to our current safety data sheets according to EC regulation No. 1907/2006. Any information, product description or reproduction of technical data given in this publication shall be provided without warranty and liability shall be excluded. The data presented in our data sheets are average values based on numerous measurements.

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