

# Märker Zement

## Technical Data Sheet

### Blast furnace cement CEM III/A 42,5 N

**Märker Portland Cement CEM III/A 42,5 N** is produced by intergrinding high grade Portland cement clinker with a selected blastfurnace slag meal or 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 42,5 N** its special properties.

Compared with Portland cements, **Märker blastfurnace cement CEM III/A 42,5 N** is characterised by an increased resistance against sulfate-containing water

**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:** Standard strength development  
Standard hydration heat 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  
Concrete for massive structural components

Recommended compressive strength:  $\geq$  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)

Revised: 08/2015



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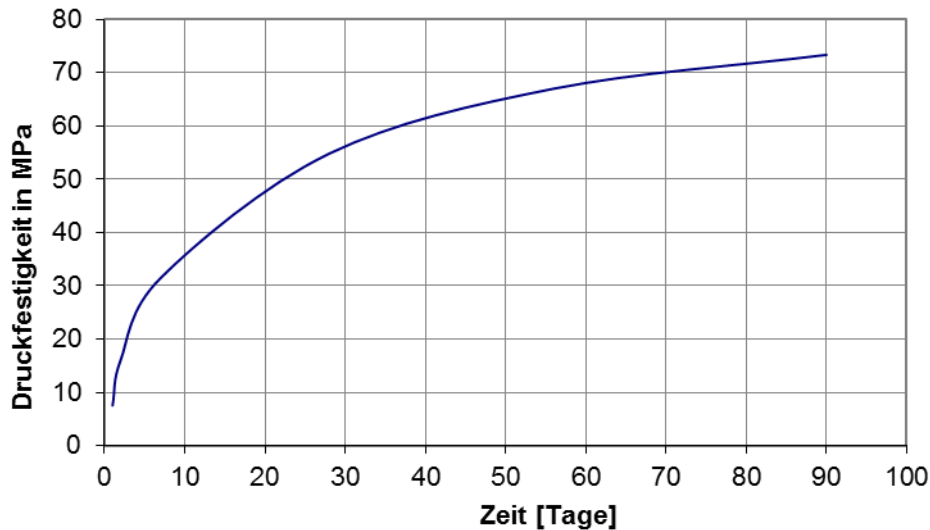
**Email:** [verkauf@maerker-gruppe.de](mailto:verkauf@maerker-gruppe.de)

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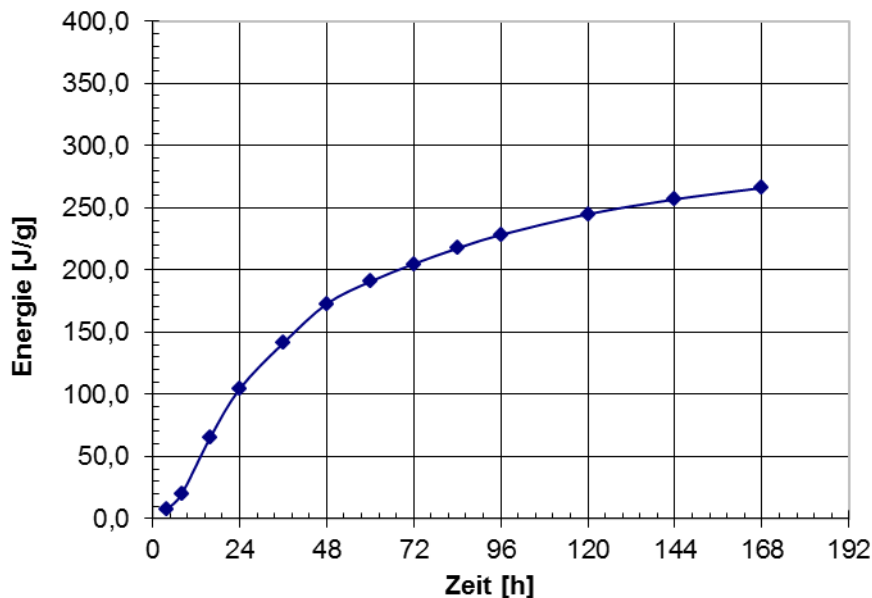
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Development of compressive strength [Druckfestigkeit] based on duration [Tage] = days



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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