

# Märker Zement

## Technical Data Sheet

### Blastfurnace cement CEM III/B 32,5 N LH/SR

**Märker Portland Cement CEM III/B 32,5 N LH/SR** 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/B 32,5 N LH/SR** its special properties. Because of its high granulated blastfurnace slag content, **Märker blastfurnace cement CEM III/B 32,5 N LH/SR** fulfils the requirements for the properties of a cement with high sulfate resistance (**SR**) and low heat of hydration (**LH**) as specified in EN 197

**Composition:** Portland cement clinker, 66-80 % blastfurnace slag meal, sulfate agents to regulate the setting.

**Properties:** Slow strength development  
Low level of hydration heat development  
Cement with high sulfate resistance  
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  
Sulphate attack on concrete caused by soil and groundwater  
Concrete for massive structural components  
Industrial floor

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



**Märker Zement GmbH, Oskar-Märker-Straße 24, D - 86655 Harburg**

**Tel.:** +49 (0)9080/8-0

**Fax:** +49 (0)9080/8335

**Internet:** [www.maerker-gruppe.de](http://www.maerker-gruppe.de)

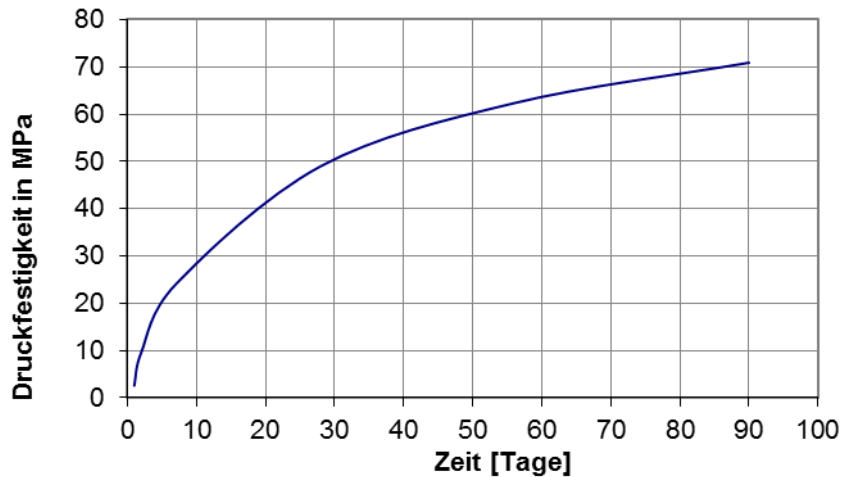
**Email:** [verkauf@maerker-gruppe.de](mailto:verkauf@maerker-gruppe.de)

# Märker Zement

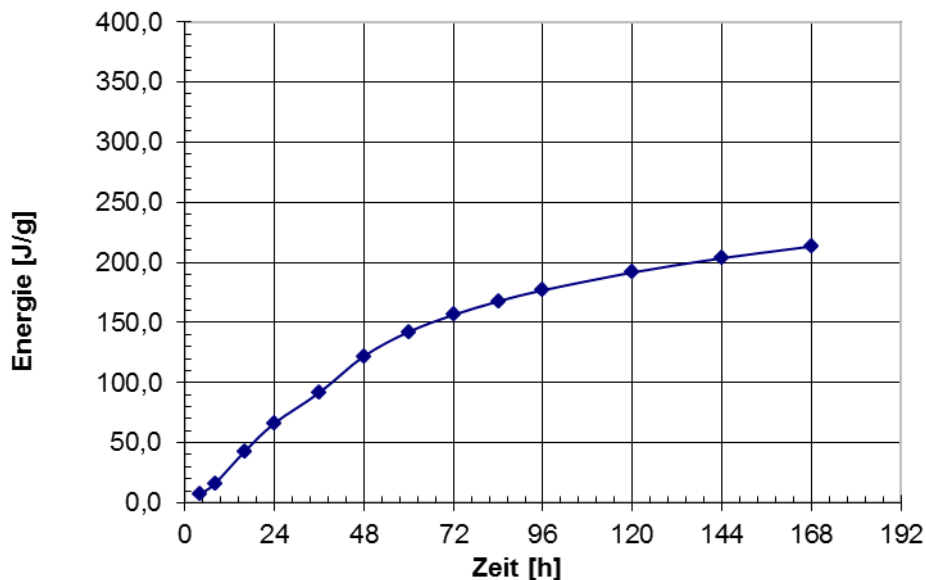
Technical Data Sheet

## Blastfurnace cement CEM III/B 32,5 N LH/SR

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.

Revised: 08/2015



Märker Zement GmbH, Oskar-Märker-Straße 24, D - 86655 Harburg

Tel.: +49 (0)9080/8-0

Fax: +49 (0)9080/8335

Internet: [www.maerker-gruppe.de](http://www.maerker-gruppe.de)

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