



# Märker

Technical Data Sheet

## Portland cement / Portlandzement CEM I 42,5 N-st Road paving cement / Fahrbahndeckenzement

**Märker Portland cement CEM I 42,5 N-st** is produced by intergrinding Portland cement clinker with sulfate agents to regulate the setting.

**Märker Portlandzement CEM I 42,5 N-st** meets the requirements for the properties of a cement according to TL Beton –StB 07 <sup>(1)</sup> and can therefore be denominated as road paving cement.

**Composition:** Portland cement clinker, sulfate agents to regulate setting.

**Properties:** Standard early strength  
Standard hardening  
Standard level of hydration heat development  
Cement with effective reduced alkali content

**Applications:** Production of:  
Cement for the production of concrete road pavements according to ZTV Beton – StB <sup>(2)</sup>  
Concrete, reinforced and prestressed concrete according to EN 206-1 / German norm DIN 1045-2

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) TL Beton — StB 07: Technical Terms of Delivery for construction materials and material mixtures for base courses with hydraulic binders and concrete surfacing.

(2) ZTV Beton – StB Additional technical terms of contract and guidelines for the construction of base courses with hydraulic binders and concrete surfacing (German designation: ZTV-Beton - StB)



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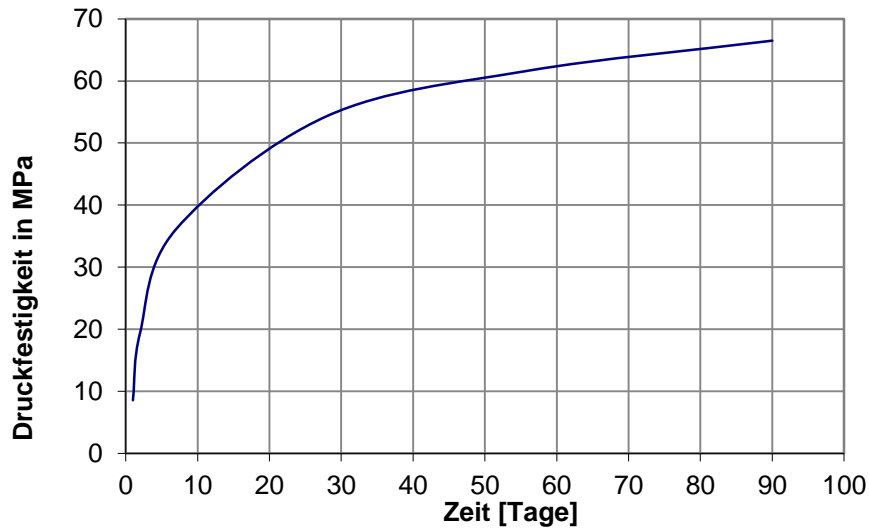
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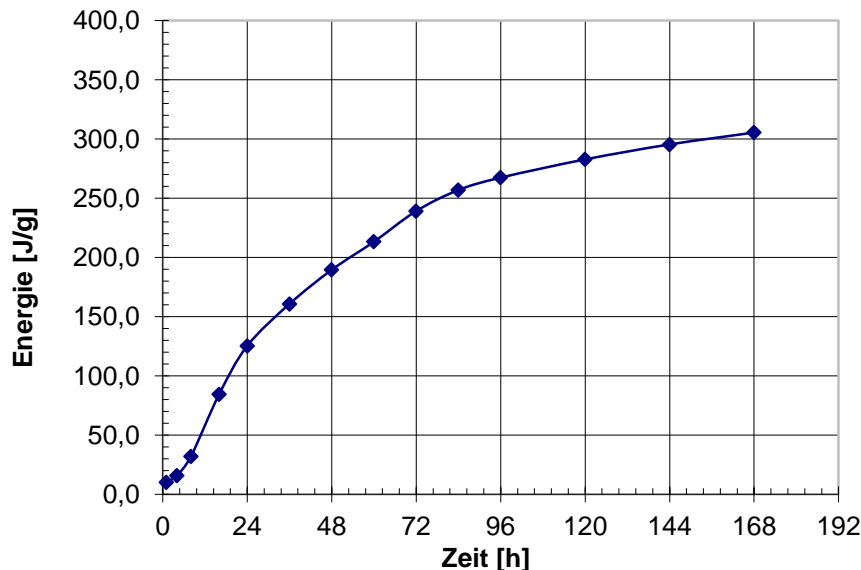
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### Development of compressive strength based on time (days)



### Evolution of hydration heat based on 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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