



# SNABBHÅRDNANDE CEMENT (SH)

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PRODUCT INFORMATION

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CEM I 52,5 R

**CEMENTA**  
HEIDELBERGCEMENT Group



## CEMENT TYPE AND APPLICATION

SH cement is a Portland cement type CEM I 52.5 R manufactured in Skövde and Slite. It has rapid strength development and is used, for example when early form stripping is required and when casting in cold weather.

SH cement can be used alone or together with additions such as fly ash, ground granulated blastfurnace slag and silica fume. Technical data can be found on page 2 of this Technical data sheet.



## STANDARDS AND CONTROL

SH cement fulfills the requirements for Portland cements in EN 197-1 Cement-Part 1: Composition, specifications and conformity criteria for common cements. Notified product certification body No 0402 (SP Technical Research Institute of Sweden) has issued the certificate of constancy of performance.

The certificate of constancy of performance and number of Declaration of Performance for SH Skövde is 0402-CPR-101326 and 0402-DoP-SE12-101326, respectively.

The certificate of constancy of performance and number of Declaration of Performance for SH Slite is 0402-CPR-101325 and 0402-DoP-SE13-101325, respectively.



## PACKAGING, DISTRIBUTION AND STORAGE

Storage in an environment that has an element of moist air or direct contact with ground moisture or water damages the cement very quickly (days, weeks). SH cement must be stored in a dry, sealed silo for a maximum of six months after delivery, as the chromate reduction process gradually loses its effect. The equivalent storage time for unbroken big bags is twelve months after date of packaging. It is always the buyer's responsibility to make sure and be able to show that the storage location is dry and sealed, and that the storage time is observed.



## GENERAL TERMS OF DELIVERY

The delivery of SH cement is subject to ABM 07 and CEMENTA's Special Terms and Conditions.



## SAFETY DURING HANDLING

All cement is dangerous to consume and must be stored out of the reach of children. Cement in the eyes creates a risk of serious eye damage. Moist cement forms calcium hydroxide, which irritates the skin and the respiratory organs. For complete information and instructions on protection, see the Material Safety Data Sheet.



## PRODUCT INFORMATION

For the latest updates to the Technical data Sheet, Material Safety Data, EPD and other product information, see our website [www.cementa.se](http://www.cementa.se).



## TECHNICAL DATA

SH cement fulfills the Technical data below.

On rare occasions the values may deviate from the specified ranges or limits.

### GUIDELINE VALUES

Property	SH Slite	SH Skövde		
Compressive strength*	Target value	Target value	Range	Requirement according to SS-EN 197-1
1 day (MPa)	33	33	± 3	
2 days (MPa)	45	45	± 3	≥ 30
7 days (MPa)	55	55	± 4	
28 days (MPa)	62	62	± 4	≥ 52,5
Setting time (min)	110	125	± 30	≥ 45

\* Measured on standard mortar according to EN 196-1

### OTHER TECHNICAL DATA

	SH Slite	SH Skövde		
Property	Value	Value	Range	Requirement according to SS-EN 197-1
Compact density (kg/m <sup>3</sup> )	3125	3125	± 20	
Bulk density (kg/m <sup>3</sup> )	1250	1250	± 250	
Blaine fineness (m <sup>2</sup> /kg)	600	530	± 30	
Passing 32 µm (%)	94	94	± 2	
Alkali, Na <sub>2</sub> O-ekv (%)	0,95	1,0	± 0,15	≤ 1,1 <sup>1</sup>
Sulfates, SO <sub>3</sub> (%)	3,7	3,7	± 0,3	≤ 4,0
Chloride, Cl <sup>-</sup> (%)	0,06	0,03	± 0,03	≤ 0,10
Water-soluble chromium Cr <sup>6+</sup> (PPM) <sup>2</sup>	0-2	0-2		≤ 2
Brightness (%)	30	25	± 1	

<sup>1</sup> According to DS/INF 135. The requirement is only for SH Slite.

<sup>2</sup> Clause 47 of Annex XVII of the REACH Regulation.



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