

Property of cement	Typical values	Requirement
1d strength	20...24 MPa	none
2d strength	32...38 MPa	≥ 20.0 MPa
7d strength	45...52 MPa	none
28d strength	56...62 MPa	≥ 52.5 MPa
Initial setting time	140...190 min	≥ 45 min
Soundness	0...1.5 mm	≤ 10 mm
Fineness (Blaine)	420...500 m <sup>2</sup> /kg	none
Loss of ignition		none
Insoluble residue		none
Sulfate content SO <sub>3</sub>	3.3...3.9%	≤ 4.0%
Chloride Cl-	≤ 0.08%	≤ 0.10%
Cr6+	0...2 mg/kg	≤ 2 mg/kg

Other main constituents	%	Requirement
Sum of other main constituents	6...15%	≥ 6% and ≤ 20%
Limestone	6...15%	
Blast furnace slag	0%	

Chemical properties of clinker	%
CaO	63...65%
SiO <sub>2</sub>	20...22%
Al <sub>2</sub> O <sub>3</sub>	4.4...5.3%
Fe <sub>2</sub> O <sub>3</sub>	2.9...3.5%
MgO	2.6...3.1%

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