

Typical properties
of cement and clinker

	Typical Values	Requirement
1 day strength	28...32 MPa	none
2d strength	41...46 MPa	≥ 30.0 MPa
7d strength	48...60 MPa	none
28d strength	57...68 MPa	≥ 52.5 MPa
Initial Setting time	120...180 min	≥ 45 min
Soundness	0...2.0 mm	≤ 10 mm
Fineness (Blaine)	490...570 m ² /kg	none
Loss of ignition	1.8...3.0%	≤ 5.0%
Insoluble residue	0.3...0.9%	≤ 5.0%
Sulfate content SO ₃	3.5...3.9%	≤ 4.0%
Chloride Cl	≤ 0.08%	≤ 0.10%
Cr6+	0...2 mg/kg	≤ 2 mg/kg

Other main constituents

	%	Requirement
Sum of the main constituents	0...5%	≤ 5.0%
Limestone	0...5%	
Blast furnace slag		

Chemical properties of clinker

	%
CaO	63...65%
SiO ₂	20...22%
Al ₂ O ₃	4.0...5.4%
Fe ₂ O ₃	2.8...3.3%
MgO	2.5...3.2%
C3A	

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