



**Kerman Momtazan Cement Co.**

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## Product Specifications

Portland Cement Clinker	Standard
CEM I 42.5 N-SR 5	BS EN 197-1
Type V (Sulfate Resistance)	ASTM C150
پ ۴۲/۵، ۵	INSO 389

### Clinker Chemical Composition, %wt

Components	KMCC Range	Common Requirement
SiO <sub>2</sub>	21.5 Min	-
Al <sub>2</sub> O <sub>3</sub>	5.0 Max	-
Fe <sub>2</sub> O <sub>3</sub>	4.0 Min	-
CaO	65.0 Min	-
MgO	1.8 Max	-
K <sub>2</sub> O	0.7 Max	-
Na <sub>2</sub> O	0.8 Max	-
SO <sub>3</sub>	0.8 Max	-
Loss of Ignition (LOI)	0.8 Max	-
Insoluble Residue (IR)	0.5 Max	-
Free CaO	1.8 Max	-
Lime Saturation Factor (LSF)	92.0 Min	-
Silica ratio (SM)	2.5 Max	-
Alumina ratio (AM)	1.0 Max	-
Tricalcium Silicate (C3S)	58.0 Min	-
Dicalcium Silicate (C2S)	18.0 Max	-
Tricalcium Aluminate (C3A)	4.8 Max	-
Tetracalcium Alumino Ferrite (C4AF)	14.0 Min	-

### Clinker Physical Parameter

Parameters	KMCC Range	Common Requirement
Size (%)	00-01mm	10
	01-05mm	25
	05-30mm	55
	30-50mm	10
Bulk Density (Kg/l)	1.2-1.3	-
Moisture (%)	0.5 Max	-
3 Day Reactivity at Fineness of 14% at 45µm. At 2.0±0.2% SO <sub>3</sub> Content, Mpa	18.0 Min	-
7 Day Reactivity at Fineness of 14% at 45µm. At 2.0±0.2% SO <sub>3</sub> Content, Mpa	34.0 Min	-
28 Day Reactivity at Fineness of 14% at 45µm. At 2.0±0.2% SO <sub>3</sub> Content, Mpa	47.0 Min	-

- Calculation of potential cement phase composition, statistical conformity criteria and uncertainties are according to ASTM & EN standards.

Q.C Manager:

