



Kerman Momtazan Cement Co.

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Doc No.: La-F-027-03

Product Specifications

Portland Cement Clinker	Standard
CEM I 42.5 N	BS EN 197-1
Type II	ASTM C150
پ ۴۲/۵، ۲	INSO 389

Clinker Chemical Composition, %wt

Components	KMCC Range	Common Requirement
SiO ₂	21.5 Min	-
Al ₂ O ₃	5.0 Max	-
Fe ₂ O ₃	4.0 Max	-
CaO	64.5 Min	-
MgO	1.8 Max	-
SO ₃	0.8 Max	-
K ₂ O	0.7 Max	-
Na ₂ O	0.8 Max	-
Loss of Ignition (LOI)	0.8 Max	-
Insoluble Residue (IR)	0.5 Max	-
Free CaO	2.0 Max	-
Lime Saturation Factor (LSF)	92.0 Min	-
Silica ratio (SM)	2.7 Max	-
Alumina ratio (AM)	1.4 Max	-
Tricalcium Silicate (C3S)	57.0 Min	-
Dicalcium Silicate (C2S)	23.0 Max	-
Tricalcium Aluminate (C3A)	7.0 Max	-
Tetracalcium Alumino Ferrite (C4AF)	10.0 Min	-

Clinker Physical Parameter

Parameters	KMCC Range	Common Requirement
Size (%)	00-01mm	15
	01-05mm	25
	05-25mm	45
	25-50mm	15
Bulk Density (Kg/l)	1.1 Min	-
Moisture (%)	0.5 Max	-
3 Day Reactivity at Fineness of 16% at 45µm. At 2.6±0.1% SO ₃ Content, Mpa	25.0 Min	-
7 Day Reactivity at Fineness of 16% at 45µm. At 2.6±0.1% SO ₃ Content, Mpa	34.0 Min	-
28 Day Reactivity at Fineness of 16% at 45µm. At 2.6±0.1% SO ₃ 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:

