

Portland Cement Type 1-325

Product				
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Physical Properties	Factory test result	Standard (ISIRI -389)	GOST 10178	Unit
Setting Time (Vicat, Initial)	170	Min 45	Min 45	Minute hr
Setting Time (Vicat, Final)	3.5	Max 6:00	Max 10:00	
Expansion (Autoclave)	0.1	Max 0.8		%
Specific Surface Area (Blaine)	3250	Min 2800	Min 2800	cm ² /gr
Residue on 90m Sieve	1			%
Compressive Strength (1 day)				kg/cm ²
Compressive Strength (2 days)				kg/cm ²
Compressive Strength (3 days)		Min 120		kg/cm ²
Compressive Strength (7 days)	270	Min 200		kg/cm ²
Compressive Strength (28 days)	370	Min 325Max525	Min400	kg/cm ²
	480			

Chemical Analysis	Factory test result	Standard (ISIRI - 389)	GOST 10178	Unit
SiO ₂	21.18			%
Al ₂ O ₃	5.24	...		%
Fe ₂ O ₃	3.55	...		%
CaO	63.56	...		%
MgO	1.79	...	Max 5.00	%
SO ₃	2.33	Max 5.00	Max 3.50	%
Insoluble Residue	0.42	Max 3.00		%
Loss On Ignation	1.30	Max 0.75		%
Free CaO	1.4	Max 3.00		%
K ₂ O	0.5			%
Na ₂ O	0.35			%

Modulus	Factory test result	Standard (ISIRI - 389)	GOST 10178	Unit
Lime Saturation Factor (LSF)	91.35			%
Silica Modulus (SM)	2.41			
Alomina Modulus (AM)	1.48			

Mineralogical Composition	Factory test result	Standard	GOST 10178	Unit
C3S	50.92			%
C2S	22.59			%
C3A	7.89			%
C4AF	10.79			%

