

Portland Cement Type 1-425

Physical Properties	
Item	Compressive Strength (kg/cm ²)
Fineness (cm ² /gr) > 3100 Min: 2800 %Retain Sieve #70 < 0.1 % Retain Sieve #170 < 0.5 Initial Set < 240 Min: 45 Final Set < 300 Max: 360 Autoclave Expansion% < 0.1 Max: 0.8 Norm. Consistency% < 25 Specific Gravity (g/cm ³) < 3.2	two days > 220 Min: 100 seven days > 340 twenty-eight days > 460Min: 425

Chemical Analysis	Factory test result
Item	%
SiO ₂	19 = <
Al ₂ O ₃	5.30 <
Fe ₂ O ₃	3.5 <
CaO	63.00 <
MgO	2.20 > Max: 5%
SO ₃	3.00 > Max: 3.5%
K ₂ O	0.95 >
Na ₂ O	0.2 >
L.O.	2.00 > Max:3%

Chemical Analysis

Factory test result

Item	%
C3S	53 <
C2S	20 >
C3A	8 =<
C4AF	12 >
C3A+C3S	60 <
2C3A+C4AF	28 <
I.R.	0.5 > Max: 0.75
Free CaO	1.5 > Max: 2
Total Alkali	0.9 >