

## Type I ASTM C 150 Cement According To American Standard

Specification

Specification	Result	Standard specification
<b>Chemical composition</b>		
SiO <sub>2</sub>	20.43%	
Al <sub>2</sub> O <sub>3</sub>	4.82%	
Fe <sub>2</sub> O <sub>3</sub>	3.89%	
CaO	62.39%	
MgO	1.28%	MAX. 6.0
SO <sub>3</sub>	2.57%	MAX. 3.0
K <sub>2</sub> O	0.23%	
Na <sub>2</sub> O	0.40%	
CL	0.03%	< 0.10
Cr+6	1.82 PPM	
Insoluble residue	0.58%	MAX 0.75
Loss on ignition	2.49%	MAX 3.0
C <sub>3</sub> S	50.03%	
C <sub>2</sub> S	20.83%	
C <sub>3</sub> A	6.19%	
C <sub>4</sub> AF	11.84%	
<b>Physical properties</b>		
Fineness (Blaine)	3250 cm <sup>2</sup> /g	2800
Expansion	050 MM	MAX 10
<b>Compressive strength</b>		
3 Days	22.20 Mpa	Min 12
7 Days	32.60 Mpa	Min 19
Initial Setting Time	175 Minutes	Min 45
Final Setting Time	285 Minutes	Min 375
Free Lime	0.51%	

