

## CEM I 42.5 N - SRS Sulphate Resistance Portland Cement Chemical composition

Specification

Specification	Result	Standard specification
<b>Chemical composition</b>		
SiO <sub>2</sub>	20.43%	
Al <sub>2</sub> O <sub>3</sub>	4.10%	
Fe <sub>2</sub> O <sub>3</sub>	4.78%	
CaO	62.98%	
MgO	1.21%	MAX. 5.0
SO <sub>3</sub>	2.57%	MAX. 3.5
K <sub>2</sub> O	0.19%	
Na <sub>2</sub> O	0.41%	
CL	0.05%	< 0.10
Cr+6	0.84 PPM	< 2 PPM
Insoluble residue	0.60%	MAX 5.0
Loss on ignition	3.50%	MAX 5.0
C <sub>3</sub> S	53.73%	
C <sub>2</sub> S	18.05%	
C <sub>3</sub> A	2.78%	
C <sub>4</sub> AF	14.55%	
<b>Physical properties</b>		
Fineness (Blaine)	3358 CM <sup>2</sup> /G	
Expansion	050 MM	MAX 10
<b>Compressive strength</b>		
2 Days	18.50 Mpa	Min 10
28 Days	46.80 Mpa	Min 42.5
Initial Setting Time	175 Minutes	Min 60
Final Setting Time	235 Minutes	
Free Lime	0.70%	

