



PRODUCT SPECIFICATION

DESCRIPTION	BIS SPECIFICATION		WONDER CEMENT SPECIFICATION	
	OPC 43 GRADE (As per IS 8112:2013)	OPC 53 GRADE (As per IS 12269:2013)	OPC 43 GRADE	OPC 53 GRADE
(A) CHEMICAL REQUIREMENTS				
Loss On Ignition (%)	5.0 Max	4.0 Max	4.0 Max	2.5 Max
Insoluble Residue (%)	4.0 Max	4.0 Max	3.0 Max	2.5 Max
Sulphuric Anhydried (%)	3.5 Max	3.5 Max	2.7 Max	2.7 Max
Magnesia (%)	6.0 Max	6.0 Max	1.5 Max	1.5 Max
Chloride Content (%)	0.1 Max	0.1 Max	0.02 Max	0.02 Max
Lime Saturation Factor (LSF)	0.66 - 1.02	0.80 - 1.02	0.85 - 0.95	0.85 - 0.95
Alumina Modulus (AM)	0.66 Min	0.66 Min	1.0 Min	1.0 Min
(B) PHYSICAL REQUIREMENTS				
Fineness (m ² /kg.)	255 Min	255 Min	280 Min	300 Min
Soundness				
Le- Chatelier (mm)	10 Max	10 Max	1 Max	1 Max
Autoclave (%)	0.8 Max	0.8 Max	0.03 Max	0.03 Max
Setting Time (minutes)				
Initial	30 Min	30 Min	130 Min	100 Min
Final	600 Max	600 Max	280 Max	250 Max
Compressive Strength (MPa)				
3 Days (72 ± 1 h)	23 Min	27 Min	30 Min	34 Min
7 Days (168 ± 2 h)	33 Min	37 Min	39 Min	44 Min
28 Days (672 ± 4 h)	43 Min & 58 Max	53 Min	55 ± 3	62 Min