



ISO 9001, ISO 14001, ISO 50001 & OHSAS 18001  
Certified by IRQS

IS 455



CM/L-6957196

**JSW CEMENT LTD.,  
VIJAYANAGAR WORKS**

**IS: 455: 2015**

**TEST CERTIFICATE FOR PORTLAND SLAG CEMENT**

S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	<b>CHEMICAL REQUIREMENTS</b>	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.50
2	Sulphur Trioxide (% SO <sub>3</sub> )	3.5	1.61
3	Sulphide Sulphur (% S)	1.5	0.22
4	Loss Of Ignition (%)	5.0	0.65
5	Insoluble Residue (%)	4.0	0.69
6	Chlorides (%)	0.1	0.009
7	Alkali Content (%) as Na <sub>2</sub> O	0.6	0.36
	<b>PHYSICAL REQUIREMENTS</b>		
1	Normal Consistency	NA	30.50
2	Fineness (M <sup>2</sup> /Kg)(Min)	225	331
3	Setting Time (minutes)		
	a) Initial(Min)	30	140
	b) Final(Max)	600	240
4	Soundness		
	a) Le-chatelier (mm)(Max)	10	1.00
	b) Auto Clave (%) (Max)	0.8	0.04
5	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	20.40
	b) 168 ± 2h(7 days)(Min)	22	30.80
	c) 672 ± 4h (28 days)(Min)	33	Awaited

Week No. 38

17.09.2023– 23.09.2023

  
Authorized signatory