



CM/L-6957196

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

**JSW CEMENT LTD.,
VIJAYANAGAR WORKS**

IS: 455: 2015

**TEST CERTIFICATE FOR PORTLAND SLAG CEMENT
(POWER PRO)**

S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	CHEMICAL REQUIREMENTS	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.29
2	Sulphur Trioxide (% SO ₃)	3.5	1.59
3	Sulphide Sulphur (% S)	1.5	0.17
4	Loss On Ignition (%)	5.0	0.95
5	Insoluble Residue (%)	4.0	0.89
6	Chlorides (%)	0.1	0.013
7	Alkali Content (%) as Na ₂ O	0.6	0.36
	PHYSICAL REQUIREMENTS		
1	Fineness (M ² /Kg)(Min)	225	335
2	Setting Time (minutes)		
	a) Initial(Min)	30	150
	b) Final(Max)	600	260
3	Soundness		
	a) Le-chatelier (mm)(Max)	10	1.00
	b) Auto Clave (%) (Max)	0.8	0.004
4	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	20.26
	b) 168 ± 2h(7 days)(Min)	22	30.29
	c) 672 ± 4h (28 days)(Min)	33	50.16

Week No. 31

30.07.2023-05.08.2023


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**JSW CEMENT LTD.,
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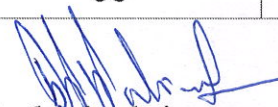
IS: 455: 2015

**TEST CERTIFICATE FOR PORTLAND SLAG CEMENT
(POWER PRO)**

S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	CHEMICAL REQUIREMENTS	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.91
2	Sulphur Trioxide (% SO ₃)	3.5	1.60
3	Sulphide Sulphur (% S)	1.5	0.20
4	Loss On Ignition (%)	5.0	1.17
5	Insoluble Residue (%)	4.0	0.91
6	Chlorides (%)	0.1	0.009
7	Alkali Content (%) as Na ₂ O	0.6	0.37
	PHYSICAL REQUIREMENTS		
1	Fineness (M ² /Kg)(Min)	225	335
2	Setting Time (minutes)		
	a) Initial(Min)	30	140
	b) Final(Max)	600	240
3	Soundness		
	a) Le-chatelier (mm)(Max)	10	1.00
	b) Auto Clave (%) (Max)	0.8	0.002
4	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	21.00
	b) 168 ± 2h(7 days)(Min)	22	32.66
	c) 672 ± 4h (28 days)(Min)	33	50.76

Week No. 32

06.08.2023-12.08.2023


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IS 455



CM/L-6957196

**JSW CEMENT LTD.,
VIJAYANAGAR WORKS**

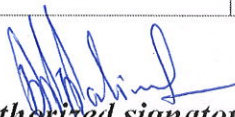
IS: 455: 2015

**TEST CERTIFICATE FOR PORTLAND SLAG CEMENT
(POWER PRO)**

S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	CHEMICAL REQUIREMENTS	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.50
2	Sulphur Trioxide (% SO ₃)	3.5	1.81
3	Sulphide Sulphur (% S)	1.5	0.19
4	Loss On Ignition (%)	5.0	0.87
5	Insoluble Residue (%)	4.0	0.98
6	Chlorides (%)	0.1	0.013
7	Alkali Content (%) as Na ₂ O	0.6	0.38
	PHYSICAL REQUIREMENTS		
1	Fineness (M ² /Kg)(Min)	225	335
2	Setting Time (minutes)		
	a) Initial(Min)	30	140
	b) Final(Max)	600	235
3	Soundness		
	a) Le-chatelier (mm)(Max)	10	1.00
	b) Auto Clave (%) (Max)	0.8	0.010
4	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	20.66
	b) 168 ± 2h(7 days)(Min)	22	30.66
	c) 672 ± 4h (28 days)(Min)	33	51.63

Week No. 33

13.08.2023-19.08.2023


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**JSW CEMENT LTD.,
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IS: 455: 2015

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(POWER PRO)**

S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	CHEMICAL REQUIREMENTS	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.70
2	Sulphur Trioxide (% SO ₃)	3.5	1.57
3	Sulphide Sulphur (% S)	1.5	0.18
4	Loss On Ignition (%)	5.0	0.85
5	Insoluble Residue (%)	4.0	0.84
6	Chlorides (%)	0.1	0.004
7	Alkali Content (%) as Na ₂ O	0.6	0.39
	PHYSICAL REQUIREMENTS		
1	Fineness (M ² /Kg)(Min)	225	335
2	Setting Time (minutes) a) Initial(Min) b) Final(Max)	30 600	130 245
3	Soundness a) Le-chatelier (mm)(Max) b) Auto Clave (%) (Max)	10 0.8	1.00 0.007
4	Compressive Strength (MPa) a) 72 ± 1h (3 days)(Min) b) 168 ± 2h(7 days)(Min) c) 672 ± 4h (28 days)(Min)	16 22 33	20.40 31.00 49.42

Week No. 34

20.08.2023-26.08.2023


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S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	CHEMICAL REQUIREMENTS	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.62
2	Sulphur Trioxide (% SO ₃)	3.5	1.62
3	Sulphide Sulphur (% S)	1.5	0.22
4	Loss On Ignition (%)	5.0	0.94
5	Insoluble Residue (%)	4.0	0.72
6	Chlorides (%)	0.1	0.006
7	Alkali Content (%) as Na ₂ O	0.6	0.34
	PHYSICAL REQUIREMENTS		
1	Fineness (M ² /Kg)(Min)	225	346
2	Setting Time (minutes)		
	a) Initial(Min)	30	135
	b) Final(Max)	600	235
3	Soundness		
	a) Le-chatelier (mm)(Max)	10	1.00
	b) Auto Clave (%) (Max)	0.8	0.007
4	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	20.30
	b) 168 ± 2h(7 days)(Min)	22	30.85
	c) 672 ± 4h (28 days)(Min)	33	50.10

Week No. 35

27.08.2023-02.09.2023


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