



IS-16715  
  
CM/L-6800135216

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

**JSW CEMENT LTD.,**  
**Vijayanagar works**

**TEST CERTIFICATE FOR ULTRAFINE GROUND GRANULATED BLAST FURNACE SLAG  
(MICROFINE GGBS)**

SL NO	Characteristics	Reference to Requirement as Per IS 16715:2018	Test Result
<b>CHEMICAL REQUIREMENTS</b>			
1	Manganese Oxide (MnO) %	5.5 % (Max)	0.15
2	Magnesium Oxide (MgO) %	17.0 % (Max)	7.72
3	Sulphide Sulphur (S) %	2.0 % (Max)	0.38
4	Sulphate (as SO <sub>3</sub> ) %	3.0 % (Max)	0.38
5	Insoluble Residue (I.R) %	3.0 % (Max)	0.39
6	Chloride Content (Cl) %	0.1 % (Max)	0.007
7	Loss On Ignition (L.O.I) %	3.0 % (max)	0.51
8	$\frac{\text{CaO} + \text{MgO} + 1/3 \text{ Al}_2\text{O}_3}{\text{SiO}_2 + 2/3 \text{ Al}_2\text{O}_3}$	1.0 % (Min)	1.09
9	$\frac{\text{CaO} + \text{MgO} + \text{Al}_2\text{O}_3}{\text{SiO}_2}$	1.0 % (Min)	1.97
<b>PHYSICAL REQUIREMENTS</b>			
		Reference to Requirement as Per IS 16715:2018	Test Result
1	Specific Gravity		2.62
2	Fineness, M2/Kg	1500 (Min)	1620
Particle size, $\mu\text{m}$ , Max:			
3	a) D <sub>50</sub>	5	2.92
	b) D <sub>95</sub>	15	8.25
Slag Activity Index			
4	a) 7 Days	85 % (Min)*	Awaiting
	b) 28 Days	100 % (Min)**	Awaiting

**Week No -32**  
**( 05.08.2024-11.08.2024 )**

**Note:-** \* Slag Activity index (SAI) shall be determined using blend of 50 % UGGBS & 50 % Control OPC 43 Conforming to IS 269.  
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**Authorized Signatory**