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SLAG SAND

(Blast Furnace Slag)



An Ecofriendly alternative
to River Sand

1800 266 266 1 (toll free)

JSW Cement
Start Strong. Grow Stronger.

ABOUT JSW CEMENT

JSW Cement is a part of USD 12 billion JSW Group. Its rapid growth has been led by Mr. Parth Jindal M.D. JSW Cement, whose multi-pronged approach to the business placed JSW Cement as the youngest among the top 10 cement companies of India, with a capacity of 14 MTPA. JSW entered the Cement market in 2009 with a vision to ensure a sustainable future for the country by producing eco-friendly cement, with its steadfast commitment to business values, sustainability norms, and quality has already carved out its niche in the cement industry. Its plants at Vijayanagar in Karnataka, Nandyal in Andhra Pradesh, Dolvi in Maharashtra, Salboni in West Bengal, Jajpur in Odisha to produce environment-friendly green cement. Which helps to reduce the carbon footprint and ensures optimal utilization of natural resources. Apart from this, the company has a listed subsidiary named Shiva Cement Ltd., in Odisha and a wholly-owned overseas subsidiary JSW Cement FZE, UAE.

JSW Cement produces Portland Slag Cement (PSC), Concreel HD (CHD), Ordinary Portland Cement (OPC), Comp Cem (Composite Cement - PCC), Ground Granulated Blast Furnace Slag (GGBS), Screened Slag and Portland Pozzolana Cement (PPC) With these green products re-affirms groups commitment towards the preservation of natural resources and sustainable construction



ABOUT SLAG SAND

A non-metallic product, consisting of glass containing silicates and alumino silicates of lime, is a byproduct of metal smelting processes, produced under controlled conditions. It does not contain any materials that may affect the strength and durability of concrete, such as chlorides, organic matter, clay, silt and shells.

ADVANTAGES

- Environmental friendly alternative.
- Controlled Physical and Chemical Properties.
- No deleterious material.
- Available through out the year.
- Graded products to meet specific needs.
- Suitable for Roads, Concrete, Plaster, Mortars, RMC Plants etc.

COMPLIANCE : SLAG SAND CONFIRMS TO IS-383 SPECIFICATIONS

COMPARISON TO RIVER SAND

RIVER SAND



BF SLAG SAND



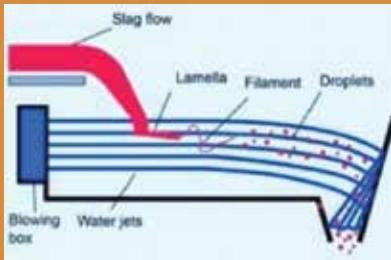
LD SLAG SAND



MANUFACTURING PROCESS

"Slag Sand" is a non-metallic product, consisting essentially of glass containing silicates and aluminosilicates of lime. Slag is a byproduct of metal smelting processes, manufactured under controlled conditions. The granulated slag is obtained by rapidly cooling (quenching) the molten slag from the furnace by means of water.

SLAG GRANULATION PROCESS



Granulated slag is obtained by rapidly chilling (Quenching) the molten slag from the furnace by means of water or steam and air.

APPLICATIONS



Plastering



Highways



Flyovers



Buildings



Sea Shore Protection



Paver Blocks



Building Blocks



Airport Runways



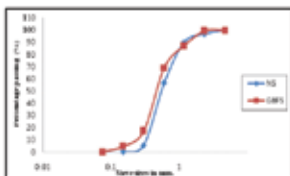
TEST REPORT ON SLAG SAND



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Sieve Analysis:

Sieve Size	Cumulative % Passing
10 mm	100.00
4.75 mm	99.8
2.36 mm	99.6
1.18 mm	85.45
600 µm	34.5
300 µm	17
150 µm	4.6



Modal Analysis of Slag Sand:

Mineralogy	Modal Analysis (Average of Sizes between 2.36 mm to 150 µm particles)
	Approximate Percentage
Major Minerals	
Melilite	72
Ca-Spinel	15
Glass	9
Minor Minerals	
Periclase	3
Opaque	1

Chemical Test

Test Conducted	Results
Soundness (%)	
Sodium Sulphate	1.70
Magnesium Sulphate	2.08
Chloride % as Cl	0.002
Sulphate % as SO ₃	0.02
pH	9.18
Alkali Aggregate Reactivity (millimoles/Yr.)	
(a). Reduction in Alkalinity of 1.0 N NaOH	30.0
(b). Silica Dissolved	6.66

Overall Evaluation:

LBD, loose bulk density, kg/l	1.2 - 1.3			
Specific Gravity	2.7			
Silt %, wet sieving	< 1.5			
Particle Shape	Sub-angular to sub rounded			
Inorganic Coating (Opal, Gypsum, Easily soluble salt etc.)	None			
Organic Coating	None			
Deleterious material (Strained quartz and other reactive minerals)	None			
Expansive mineral (s)	None			
Chemical Analysis	CaO	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃
	34.30	36.01	17.29	6.03
General Comments	Mineralogical examination of BF Slag aggregate shows no content of any reactive forms of minerals which could cause alkali-aggregate reaction to occur. Vesicular nature of particles can promote to good interlocking between particles			

CONFORMS TO PROPERTIES OF IS-383

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SLAG SAND

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www.jswcement.in