

**TATA STEEL LTD.**

TATA STEEL LIMITED , Bistupur , Jamshedpur

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Corporate Identity Number : L27100MH1907PLC000260 , Website : www.tatasteel.com

**Technical Delivery Condition – Ground Granulated Blast Furnace Slag (GGBS)****TDC No.:** IBMD/BPS/GGBS/01/18**Revision Date:** 01.09.2018**Rev.:** 02

**Ground-granulated blast-furnace slag (GGBS )** is obtained by quenching molten iron slag (a by-product of iron and steel-making) from a blast furnace in water or steam, to produce a glassy, granular product that is then dried and ground into a fine powder.

**Product Details**

<b>Name</b>	Ground Granulated Blast Furnace Slag(GGBS)
<b>Material Code No. (at Tata Steel)</b>	140006991
<b>Category</b>	By-Product

**Physical Properties**

<b>State</b>	Fine Powder
<b>Fineness</b>	4000-4200 cm <sup>2</sup> /gm (Blaine)
<b>Moisture</b>	As per IS 16714:2018:- Max. 1%
<b>Colour</b>	Whitish

**Chemical Properties**

Elements	Unit	Min	Max	Remarks
SiO <sub>2</sub>	%	32.00	38.00	
FeO	%	0.20	2.00	
CaO	%	32.00	38.00	
MnO	%	0.02	1.20	As per IS 16714:2018:- Max. 5%
Al <sub>2</sub> O <sub>3</sub>	%	16.00	22.00	
Sulphur	%	0.10	1.20	As per IS 16714:2018:- Max. 2%
MgO	%	6.00	11.00	As per IS 16714:2018:- Max. 17%
TiO <sub>2</sub>	%	0.50	1.20	
Moduli Value [(CaO+MgO+Al <sub>2</sub> O <sub>3</sub> )/SiO <sub>2</sub> ]		1.60	2.00	As per IS 16714:2018:- Min. 1%
Insoluble Residue	%	0.70	3.00	As per IS 16714:2018:- Max. 3%
Loss of Ignition	%	0.00	0.00	As per IS 16714:2018:- Max. 3%
Glass Content	%	90.00		As per IS 16714:2018: Min. 85%
<b>Sampling Procedure</b>	As per IS 12089			
<b>Testing Frequency</b>	Weekly			

## Delivery Condition

**Mode of Despatch**

50kg bags/ Bulkera

**Packing/Bundling**

Closed

**Other Special Supply Conditions**

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## Safety

Refer: Material Safety Data Sheet