



**PRODUCT INFORMATION SHEET**

**CASTABLE 18**

<b>CLASSIFICATION</b>	<b>High Alumina Conventional Castable</b>		
<b>PHYSICAL PROPERTIES</b>	Max. Service Temperature	<sup>0</sup> C	1800
	Max. Grain Size of Aggregates	mm.	8
	Approx. Weight Required for Casting	Kg./m <sup>3</sup>	2750-2800
	Approx. Amount of Water Required for Casting	%	7 - 9
	Bulk Density After Drying at 110 <sup>0</sup> C	Kg./m <sup>3</sup>	2750-2800
	Modulus of Rupture After Drying at 110 <sup>0</sup> C	Kg./cm <sup>2</sup>	110-130
	Cold Crushing Strength After Drying at 110 <sup>0</sup> C	Kg./cm <sup>2</sup>	650-750
	Bulk Density After Heating at 1400 <sup>0</sup> C	Kg./m <sup>3</sup>	2760
	Modulus of Rupture After Heating at 1400 <sup>0</sup> C	Kg./cm <sup>2</sup>	120-140
	Cold Crushing Strength After Heating at 1400 <sup>0</sup> C	Kg./cm <sup>2</sup>	450-550
<b>THERMAL CONDUCTIVITY</b>	Permanent Linear Change After Heating 1400 <sup>0</sup> C	%	-0.4
	at 400 <sup>0</sup> C	(W/m.K)	1.87
	at 600 <sup>0</sup> C	(W/m.K)	1.87
	at 1000 <sup>0</sup> C	(W/m.K)	1.90
<b>CHEMICAL COMPOSITION</b>  APPROX. (%)	Alumina (Al <sub>2</sub> O <sub>3</sub> )	%	95
	Silica (SiO <sub>2</sub> )	%	1.0
	Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	%	0.1
	Calcium Oxide (CaO)	%	4.2

The data cannot be used for specification and guarantee purpose – reasonable variances in data can be expected. Product data is update periodically to reflect product / raw material / process / testing changes. Please contact BST’s representative for the most updated data.

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