



## PRODUCT INFORMATION SHEET

**CASTABLE 13ES**

CLASSIFICATION	<b>Castable Concrete Extra Strength</b>		
<b>PHYSICAL PROPERTIES</b>	Max. Service Temperature	<sup>0</sup> C	1300
	Max. Grain Size of Aggregates	mm.	5
	Approx Weight Required for Casting	kg/m <sup>3</sup>	2150-2180
	Approx. Amount of Water Required for Casting	%	11-12
	Bulk Density After Drying at 110 <sup>0</sup> C	Kg./m <sup>3</sup>	2150-2180
	Modulus of Rupture After Drying at 110 <sup>0</sup> C	Kg./cm <sup>2</sup>	70-80
	Cold Crushing Strength After Drying at 110 <sup>0</sup> C	Kg./cm <sup>2</sup>	430-470
	Bulk Density After Heating at 1200 <sup>0</sup> C	Kg./m <sup>3</sup>	2140
	Modulus of Rupture After Heating at 1200 <sup>0</sup> C	Kg./cm <sup>2</sup>	60-70
	Cold Crushing Strength After Heating at 1200 <sup>0</sup> C	Kg./cm <sup>2</sup>	300-350
Permanent Linear Change After Heating 1200 <sup>0</sup> C	%	+0.05	
<b>THERMAL CONDUCTIVITY</b>	at 400 <sup>0</sup> C	(W/m.K)	1.15
	at 600 <sup>0</sup> C	(W/m.K)	1.18
	at 1000 <sup>0</sup> C	(W/m.K)	1.30
<b>CHEMICAL COMPOSITION</b>  APPROX. (%)	Alumina (Al <sub>2</sub> O <sub>3</sub> )	%	43
	Silica (SiO <sub>2</sub> )	%	45
	Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	%	1.6
	Calcium Oxide (CaO)	%	7.0

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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