

4.5 Insulating Brick: Grade IB-01 Essential properties and characteristics for grade IB-01		
	Unit	characteristics
Refractoriness Under Load T0.5 EN ISO 1893	°C	≥ 850
Cold Crushing Strength EN ISO 8895	MPa	≥ 0.8
Thermal Conductivity 200 °C ASTM C182-88	W/Mk	≤ 0.15
400		≤ 0.18
600		≤ 0.21
800		≤ 0.25
Permanent Linear Change 12 hours at 880°C EN 1094-6	%	-1 ≤ PLC ≤ 0
Bulk Density EN 1094-4	g/cm ³	≤ 0.6 ±1
Total Porosity EN 1094-4	%	80
Thermal Expansion 20°C – 1000°C EN 993-19	%	0.5
Classification Temperature EN 1094-2	°C	≥ 1100
Chemical Analysis EN ISO 21587-2, EN ISO 21587-3, EN ISO 12677		
AL ₂ O ₃	wt%	12 _ 18
SiO ₂	wt%	53 _ 59
Fe ₂ O ₃	wt%	≤ 0.5
CaO	wt%	23 _ 29

S – 135								
NO		Draw. No		Pics	Quality	Type	W	kg
511	Side wall insul.	ZN	236878	1714	IB-01	S-135	4,287	Kg
532	Crossover			424	IB-01	S-135	1,062	Kg
				2,138			5,349	Kg

S – 270								
NO		Draw. No		PCS	Quality	Type	Weight	Kg
533	Crossover	ZN	236883	5124	IB-01	S-270	25,643	kg
521	End wall insul.			1795	IB-01	S-270	8,983	kg
512	Side wall insul.			65117	IB-01	S-270	325,844	kg
				72,036			360,470	kg