

## Monolithic Refractories for Blast Furnace

## نسوزهای مونولیتیک کوره بلند

Products	Chemical Analysis (%wt)				Main Component	Application Method	Grain Size (mm)	Bulk Density At 200 °C (gr/cm <sup>3</sup> )	Bulk Density At 800 °C (gr/cm <sup>3</sup> )	C.C.S (Kg/cm <sup>2</sup> )	
	Al <sub>2</sub> O <sub>3</sub>	SiC+SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	LOI						200 °C	800 °C
SURA PLAST-LP	49±2	49±2	2.5±0.5	6±1.5	High duty Fire Clay, SiC	Ramming	0 – 5	2.2 ± 0.1	2.3 ± 0.1	> 65	> 110
SURA PLAST-THP	40±2	49±2	2.5±0.5	6±1.5	High duty Fire Clay, SiC	Ramming	0 – 5	2.1 ± 0.1	2.2 ± 0.1	> 80	> 100
SURA PLAST-THC	36±2	42±2	1.5±0.5	6±1.5	Bauxite, SiC	Ramming	0 – 5	2.3 ± 0.1	2.4 ± 0.1	>100	>130
SURA PLAST-MRP	35±2	53±2	2.5 ± 0.5	6±1.5	High duty Fire Clay, SiC	Ramming	0 – 5	2.2 ± 0.1	2.3 ± 0.1	> 90	> 120
SURA PLAST-SRP	38±2	49±2	2.5±0.5	6±1.5	High duty Fire Clay, SiC	Ramming	0 – 5	2.2 ± 0.1	2.3 ± 0.1	> 80	> 100
Standards	ISO 21587-2								ASTM C20	ASTM C133	

Products	Chemical Analysis (%wt)					Main Component	Application Method	Refractoriness (°C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 °C (gr/cm <sup>3</sup> )	C.C.S (Kg/cm <sup>2</sup> )	
	Al <sub>2</sub> O <sub>3</sub>	SiC+SiO <sub>2</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO							110 °C	1200 °C
SURA CAST BFM	84±2	16±2	-	< 0.5	2±0.5	Fused Alumina, SiC	Casting	> 1800	6.5 – 7.5	0 – 5	2.9 ± 0.1	700 – 1000	750 – 1050
SURA CAST BFS	61±2	38±2	-	< 0.5	2±0.5	Fused Alumina, SiC	Casting	> 1800	6.5 – 7.5	0 – 5	3 ± 0.1	550 – 850	600 – 900
SURA CAST BFMS	85±2	16±2	-	< 0.5	2±0.5	Fused Alumina, SiC	Casting	> 1800	6 – 7	0 – 5	2.95 ± 0.1	650 – 950	700 – 1000
SURA CAST 86 MP	86±2	-	10±2	1.5±0.5	2.5±0.5	Tabular Alumina, Bauxite	Casting	> 1800	7 – 8	0 – 5	2.7 ± 0.1	600 – 900	600 – 900
SURA GUN BF	65±2	30±2	-	1.5±0.5	2±0.5	Bauxite, SiC	Gunning	> 1700	At Nozzle	0 – 3	2.5 ± 0.1	200 – 500	200 – 500
Standards	ISO 21587-2							ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	