



SEMICAST 45-5S

Description: A refractory Castable consisting of calcined, Abrasion resistant aggregates bonded with high purity calcium aluminate cement. Developed for use in Alkali zone such as burner of rotary kilns & etc. Adaptable for casting or Troweling. Excellent alkali resistance and Strength throughout its entire temperature range, High resistance to Mechanical impact and Abrasion.

Type of Material:	Fireclay Castable
Bonding System:	Hydraulic
Raw Material Base:	Chamotte – High Alumina Cement – Silicon Carbide
Max Service Temperature:	1400 ^o C
Installation Method:	Casting - Troweling
Grain Size:	0-6 mm
Dry Material Required:	2.2 ton/m ³
Drinking Water Required on site:	8-10%

Main Chemical Composition based on Raw Materials

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	SiC
40-45	35-45	<2	3-5	5-7

Physical Properties

	Bulk Density (gr/cm ³)	PLC (%)	CCS (Mpa)	MOR (Mpa)
After Drying @ 110 ^o C/24 hrs.	>2.2	-	40-70	4-6
After Firing @ 1200 ^o C / 3 hrs.	>2.2	-0.5	40-65	4-5

Drying and Heating: Cured for 24 hours before removing molds, dry at 110^oC for 24-36 hours. heating to working temperature at 25-50^oC/h.

Packing: 25 kg Multi wall water proof sacks. Palletized 48 sacks per pallets. Protected with stretch wrap.

Storage: Beyond 9 months is not recommended. Store in dry location.

Note: The above-mentioned data represent typical values obtained from current production using ASTM standard and are subject to normal variation or individual tests. This result cannot be considered min or max for specific purposes.



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