



SEMICAST 45

Description: High strength refractory castable consisting of calcined, Abrasion resistant aggregates bonded with calcium aluminate cement, Resistant to mechanical impact & abrasion. Developed for use in equipment such in cement or steel industries & etc. Adaptable for casting or troweling. Excellent Strength throughout its entire temperature range.

Type of Material:	Dense Fireclay Based Regular Castable
Bonding System:	Hydraulic
Raw Material Base:	Chamotte – High Quality Cement
Max Service Temperature:	1350 ^{oC}
Installation Method:	Casting - Troweling
Grain Size:	0-6 mm
Dry Material Required:	2.15 ton/m ³
Drinking Water Required on site:	11-13%

Main Chemical Composition based on Raw Materials

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO
42-45	32-35	6-8	9-11

Physical Properties

	Bulk Density (gr/cm ³)	PLC (%)	CCS (Mpa)	MOR (Mpa)
After Drying @ 110 ^{oC} /24 hrs.	>2.20	-	>25	3-7
After Firing @ 1250 ^{oC} / 3 hrs.	>2.15	-0.5-0.0	>25	4-9

Drying and Heating: Hold 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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