



# SEMICAST 45 LI

**Description:** a refractory Castable consisting of Calcined Abrasion Resistance aggregates bonded with Low Iron Calcium Aluminate Cement. Developed for use in equipment such in cement or steel industries & etc. Adaptable for casting or troweling. Excellent Strength Throughout its entire temperature range, High resistance to mechanical impact and abrasion.

<b>Type of Material:</b>	Dense Fireclay Based Regular Castable
<b>Bonding System:</b>	Hydraulic
<b>Raw Material Base:</b>	Chamotte – Low Iron Quality Cement
<b>Max Service Temperature:</b>	1450 <sup>o</sup> C
<b>Installation Method:</b>	Casting - Troweling
<b>Grain Size:</b>	0-6 mm
<b>Dry Material Required:</b>	2.05 ton/m <sup>3</sup>
<b>Drinking Water Required on site:</b>	11-13%

## Main Chemical Composition based on Raw Material

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO
45-48	35-37	2-3	9-11

## Physical Properties

	Bulk Density (gr/cm <sup>3</sup> )	PLC (%)	CCS (Mpa)	MOR (Mpa)
After Drying @ 110 <sup>o</sup> C/24 hrs.	<2.2	-	40-50	6-10
After Firing @ 1250 <sup>o</sup> C / 3 hrs.	<2.15	0-1	>25	6-10
After Firing @ 1350 <sup>o</sup> C / 3 hrs.	>2.15	0-1	>30	5-10

**Drying and Heating:** Hold for 24 hours before removing molds, dry at 110<sup>o</sup>C for 24-36 hours. heating to working temperature at 25-50<sup>o</sup>C/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.*



Tel: +98 21 88716301-2 +98 21 88556293

Fax/WhatsApp: +98 21 88706146



WWW.SEMIROM-MINE.COM

info@semirom-mine.com



Head Office: 5<sup>th</sup> floor- No 82- 31<sup>st</sup> Avenue – Ebnesina street – Yousef Abad – Tehran - IRAN