



# SEMICAST 55 LC

**Description:** A Low cement refractory Castable consisting of calcined, Abrasion resistant aggregates bonded with high purity calcium aluminate cement. Developed for use in equipment such as cyclones & piping, Materials handling equipment, rotary kilns & 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 High Alumina Regular Castable
<b>Bonding System:</b>	Hydraulic
<b>Raw Material Base:</b>	Chamotte – High Alumina Cement
<b>Max Service Temperature:</b>	1550 <sup>o</sup> C
<b>Installation Method:</b>	Casting - Troweling
<b>Grain Size:</b>	0-6 mm
<b>Dry Material Required:</b>	2.25 ton/m <sup>3</sup>
<b>Drinking Water Required on site:</b>	6-8%

## Main Chemical Composition based on Raw Materials

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO
53-55	35-40	<2	<2.5

## Physical Properties

	Bulk Density (gr/cm <sup>3</sup> )	PLC (%)	CCS (Mpa)	MOR (Mpa)
After Draying @ 110 <sup>o</sup> C/24 hrs.	>2.30	-	60-90	5-10
After Firing @ 1260 <sup>o</sup> C / 3 hrs.	>2.25	-0.7 to-0.8	60-80	8-9
After Firing @ 1450 <sup>o</sup> C / 3 hrs.	>2.25	-0.5 to -0.9	80-90	9-11

**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