

PREMIER REFRACTORIES OF INDIA PVT. LTD.

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Specification - Low Cement Castables

BRAND NAME	PRIL LC - 45	PRIL LC - 60	PRIL LC - 70	PRIL LC - 80	PRIL LC - 90	PRIL LC - 95	PRIL LC - 60S	PRIL LC - 70M	PRIL LC - 70Li
Nature of Bond Application Method	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting	Hydraulic Vibro Casting
GENERAL PROPERTIES Max grain size , mm Water required for casting , % Max Service Temp , °C RTE at 1000°C , %	6 4.50 - 5.50 1550 0.55	6 4.50 - 5.50 1600 0.60	6 4.50 - 5.50 1600 0.65	6 4.50 - 5.20 1700 0.75	6 4.00 - 5.00 1700 0.85	6 4.00 - 4.70 1800 0.90	6 4.50 - 5.50 1600 0.60	6 4.50 - 5.30 1700 0.65	6 4.50 - 5.50 1650 0.65
CHEMICAL ANALYSIS Al ₂ O ₃ , % , min Fe ₂ O ₃ , % , max	45.00 1.00	60.00 1.50	70.00 1.50	80.00 1.80	90.00 1.00	94.00 0.30	58.00 1.00	70.00 0.50	70.00 0.85
PHYSICAL PROPERTIES Bulk Density , gm / cc after drying at 110°C / 24 hrs , min CCS, Kg / cm ² , min after drying at 110 °C / 24 hrs , min after heating at 800 °C / 3 hrs , min after heating at 1100 °C / 3 hrs , min after heating at 1500 °C / 3 hrs , min	2.30 725 825 900 1000	2.60 760 825 900 1000	2.65 760 825 900 1000	2.90 800 900 1000 1150	3.00 950 1000 1100 1200	3.10 1000 1050 1100 1200	2.55 760 800 900 1000	2.60 700 800 950 1100	2.65 700 800 950 1000
THERMAL PROPERTIES Refractoriness , OC / °C , min PLC , % , max after heating at 800°C / 3 hrs after heating at 1100°C / 3 hrs after heating at 1500°C / 3 hrs after heating at 1550°C / 3 hrs	32 OC / 1717 ± 0.20 ± 0.30 ± 1.00 -	36 OC / 1804 ± 0.20 ± 0.30 ± 1.00 -	36 OC / 1804 ± 0.20 ± 0.30 ± 1.00 -	37 OC / 1820 ± 0.20 ± 0.30 - ± 1.00	37 OC / 1820 ± 0.20 ± 0.30 - ± 0.75	38 OC / 1835 ± 0.20 ± 0.30 - ± 0.75	36 OC / 1804 ± 0.20 ± 0.30 ± 0.75 -	37 OC / 1820 ± 0.20 ± 0.30 - ± 0.60	36 OC / 1804 ± 0.20 ± 0.30 - ± 0.75