

PREMIER REFRACTORIES OF INDIA PVT. LTD.

Head Office & Works - New Katni Junction (NKJ), Katni (MP) India 483501
 Phone : 07622 - 237200, 237266 E-mail : marketing@premierrefractories.com
 Visit Us - www.premierrefractories.com

Specification - Ulta Low Cement Castables

BRAND NAME	PRIL ULC - 45	PRIL ULC - 60	PRIL ULC - 70	PRIL ULC - 80	PRIL ULC - 90	PRIL ULC - 95	PRIL ULC - 70M	PRIL ULC - 80S	PRIL ULC - 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	6	6	6	6	6	6	6	6	6
Water required for casting , %	4.50 - 5.50	4.50 - 5.50	4.50 - 5.50	4.50 - 5.00	4.00 - 5.00	4.00 - 5.00	4.50 - 5.00	4.50 - 5.00	4.50 - 5.00
Max Service Temp , °C	1550	1600	1650	1700	1750	1800	1700	1750	1650
RTE at 1000°C , %	0.55	0.60	0.65	0.75	0.85	0.90	0.65	0.75	0.65
CHEMICAL ANALYSIS									
Al ₂ O ₃ , % , min	45.00	60.00	70.00	80.00	90.00	94.00	70.00	80.00	70.00
Fe ₂ O ₃ , % , max	1.00	1.50	1.50	1.80	1.00	0.30	0.50	0.40	0.80
CaO , % , max	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHYSICAL PROPERTIES									
Bulk Density , gm / cc after drying at 110°C / 24 hrs , min	2.35	2.60	2.70	2.90	3.00	3.00	2.60	2.90	2.70
CCS. Kg / cm ² . min									
after drying at 110 °C / 24 hrs , min	400	400	425	450	450	400	450	450	450
after heating at 800 °C / 3 hrs , min	825	825	800	825	1000	700	700	700	800
after heating at 1100 °C / 3 hrs , min	850	850	900	1000	1100	1000	900	900	900
after heating at 1550 °C / 3 hrs , min	900	900	1000	1200	1200	1250	1050	1100	1000
THERMAL PROPERTIES									
Refractoriness , OC / °C , min	32 OC / 1717	36 OC / 1804	36 OC / 1804	37 OC / 1820	38 OC / 1835	38 OC / 1835	37 OC / 1820	38 OC / 1835	37 OC / 1820
PLC , % , max									
after heating at 800°C / 3 hrs	± 0.20	± 0.20	± 0.20	± 0.20	± 0.20	± 0.20	± 0.20	± 0.20	± 0.20
after heating at 1100°C / 3 hrs	± 0.20	± 0.20	± 0.20	± 0.30	± 0.30	± 0.30	± 0.30	± 0.30	± 0.30
after heating at 1550°C / 3 hrs	± 0.70	± 0.70	± 0.70	± 0.80	± 0.80	± 0.80	± 0.50	± 0.50	± 0.70
after heating at 1650°C / 3 hrs	-	-	-	-	-	-	-	0.80	-