

PREMIER REFRACTORIES OF INDIA PVT. LTD.

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Specification - Mortars

BRAND NAME	PRILSET - 30	PRILSET - 40	PRILSET - 50	PRILSET - 60	PRILSET - 70	PRILSET - 80	PRILSET - 30 S	PRILSET - 40 S	PRILSET - 50 S	PRILSET - 75 S	PRILSET - 60 S	PRILSET - 70 S
PHYSICAL PROPERTIES												
Water for trowelling consistency , % (Typical)	35 - 40	35 - 40	30 - 35	20 - 25	20 - 25	20 - 25	30 - 35	30 - 35	30 - 35	25 - 30	30 - 35	25 - 30
Water required for ramming consistency , % (Typical)	14 - 18	14 - 18	14 - 18	14 - 18	12 - 14	12 - 14	14 - 18	14 - 18	14 - 18	12 - 14	10 - 12	12 - 14
Transverse strength . kg / cm ² after drying at 110°C / 24 hrs (Typical)	12	15	16	15	18	20	15	15	18	19	15	18
Percentage retained above max grain size	5	5	5	5	5	5	5	5	5	5	5	5
Refractoriness , OC / °C, min	26 / 1621	31 / 1683	31 1/2 / 1699	33 / 1743	34 / 1763	34 / 1763	28 / 1646	31 / 1683	32 1/2 / 1724	36 / 1804	34 / 1763	35 / 1785
Max grain size , mm	1.00	1.00	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Nature of Bond	Ceramic	Ceramic	Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic
Max Service Temp , °C	1400	1450	1500	1600	1600	1700	1450	1550	1600	1700	1650	1700
Sintering Temp , °C	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
CHEMICAL ANALYSIS												
Al ₂ O ₃ %, min	30.00	40.00	50.00	60.00	70.00	80.00	30.00	40.00	50.00	75.00	60.00	70.00
Fe ₂ O ₃ %, max	3.00	3.50	4.00	3.50	3.50	3.50	2.20	2.20	2.20	2.00	2.20	3.00
BRAND NAME	PRILSET - 80 L	PRILSET - 90 L	PRILSET - 90 K	PRILSET - 99	PRILSET - 90 K	PRILSET - 51 N	PRILSET - 51 FINE	PRILSET SUPER FINE	POROSINT MORTAR	POROSINT MORTAR	PRILSET - HS	PRILSET - INS
PHYSICAL PROPERTIES												
Water for trowelling consistency , % (Typical)	25 - 30	25 - 30	35 - 40	35 - 40	25 - 30	25 - 30	25 - 30	25 - 30	35 - 38	35 - 38	35 - 38	70 - 75
Water required for ramming consistency , % (Typical)	8 - 10	15 - 18	20 - 22	15 - 18	15 - 18	12 - 15	12 - 15	15 - 18	12 - 15	12 - 15	12 - 15	45 - 50
Transverse strength , kg / cm ² after drying at 110°C / 24 hrs (Typical)	20	20	15	15	-	16	22	22	15	15	15	-
Percentage retained above max grain size	5	5	5	5	5	5	5	5	5	5	5	5
Refractoriness , OC / °C, min	37 / 1820	38 / 1835	38 / 1835	38 / 1835	38 / 1835	31 1/2 / 1699	31 1/2 / 1699	32 1/2 / 1724	32 / 1717	30 / 1665	31 / 1683	18 / 1522
Max grain size , mm	0.50	0.50	0.50	0.50	0.50	1.50	0.50	0.50	0.50	0.50	0.50	1.00
Nature of Bond	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Chemical / Ceramic	Air - Setting	Air - Setting	Air - Setting	Air - Setting
Max Service Temp , °C	1750	1750	1750	1800	1750	1550	1550	1550	1600	1500	1550	1350
Sintering Temp , °C	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
CHEMICAL ANALYSIS												
Al ₂ O ₃ %, min	80.00	90.00	90.00	96.00	88.00	50.00	50.00	45.00	50.00	35.00	40.00	20.00
Fe ₂ O ₃ %, max	1.50	0.50	0.30	0.30	1.00	4.00	4.00	1.50	1.00	1.00	1.50	2.00