

PREMIER REFRACTORIES OF INDIA PVT. LTD.

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Specification - Gunning Masses

PRODUCT TYPE	PRILGUN - 45 45% Alumina Gunning Mass Hydraulic Gunning	PRILGUN - 90 SUPER 90% Alumina Gunning Mass Hydraulic Gunning	PRILGUN - 94 SUPER 94% Alumina Gunning Mass Hydraulic Gunning
GENERAL PROPERTIES	1450	1600	1700
Max Service Temp , °C	6	4	4
Max Grain Size, mm	11 - 14	9 - 11	9 - 11
Water Content , %			
CHEMICAL ANALYSIS			
Al ₂ O ₃ , % ,	44.0	87.0	93.0
min Fe ₂ O ₃ , % , max	2.00	1.00	0.30
PHYSICAL PROPERTIES			
Bulk Density , gm / cc			
after drying at 110°C / 24 hrs ,	2.00	2.50	2.65
CCS, Kg / cm ² , min			
after drying at 110 °C / 24 hrs ,	150	50	400
after heating at 1400 °C / 3 hrs ,	200	-	-
after heating at 1550 °C / 3 hrs ,	-	800	400
THERMAL PROPERTIES			
Refractoriness , OC / °C , min	+ 15 / + 1450	36 / 1804	35 / 1785
PLC , % , max			
after heating at 1400 °C / 3 hrs ,	± 1.00	-	-
after heating at 1550 °C / 3 hrs ,	-	± 2.50	± 2.00
Thermal conductivity, K Cal / m /			
at 200°C Hot Face	0.76	-	1.35
at 400°C Hot Face	0.80	-	1.30
at 600°C Hot Face	0.84	-	1.26
PRODUCT TYPE	PRIL - GUN BF	PRIL - GUN 55	PRIL - GUN 60
GENERAL PROPERTIES			
Max Service Temp , °C	1600	1550	1650
Max Grain Size, mm	6	6	6
Water Content , %	8 - 9	7 - 8	7 - 8
CHEMICAL ANALYSIS			
Al ₂ O ₃ , % , min	48.0	52.0	58.0
Fe ₂ O ₃ , % , max	1.50	1.00	1.50
PHYSICAL PROPERTIES			
Bulk Density , gm / cc			
after drying at 110°C / 24 hrs ,	2.20	2.25	2.35
CCS, Kg / cm ² , min			
after drying at 110 °C / 24 hrs ,	400	400	500
after heating at 1400 °C / 3 hrs ,	-	-	-
after heating at 1550 °C / 3 hrs ,	350	350	500
THERMAL PROPERTIES			
Refractoriness , OC / °C , min	32 / 1717	32 / 1717	33 / 1743
PLC , % , max			
after heating at 1550 °C / 3 hrs ,	± 0.70	± 1.50	± 1.00
Thermal conductivity, K Cal / m /			
at 200°C Hot Face	0.74	1.22	1.50
at 400°C Hot Face	0.75	1.20	1.37
at 600°C Hot Face	0.79	1.17	1.30