

## PREMIER REFRACTORIES OF INDIA PVT. LTD.

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### Specification - Insulating Castables

BRAND NAME	PRILYTE - 4	PRILYTE - 7	PRILYTE - 9	BRAND NAME	PRILYTE - 11	PRILYTE - 13	PRILYTE - 15
Type Nature of Bond Application Method	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping	Type Nature of Bond Application Method	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping
<b>GENERAL PROPERTIES</b> Max grain size, mm Water required for casting, % Max Service Temp, °C RTE at 1000°C, %	6 80 - 100 1000 0.55	6 60 - 65 1100 0.58	6 35 - 40 1200 0.58	<b>GENERAL PROPERTIES</b> Max grain size, mm Water required for casting, % Max Service Temp, °C RTE at 1000°C, %	6 32 - 36 1300 0.56	6 28 - 32 1350 0.58	6 26 - 30 1350 0.58
<b>CHEMICAL ANALYSIS</b> Al <sub>2</sub> O <sub>3</sub> , %, min Fe <sub>2</sub> O <sub>3</sub> , %, max	25.00 11.00	30.00 8.50	30.00 6.20	<b>CHEMICAL ANALYSIS</b> Al <sub>2</sub> O <sub>3</sub> , %, min Fe <sub>2</sub> O <sub>3</sub> , %, max	34.00 3.70	38.00 3.50	38.00 3.40
<b>PHYSICAL PROPERTIES</b> Bulk Density, gm / cc after drying at 110°C / 24 hrs, max CCS, Kg / cm <sup>2</sup> , 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	0.56 5.00 3.00 -	0.85 12.00 5.00 6.00	1.00 15.00 7.00 10.00	<b>PHYSICAL PROPERTIES</b> Bulk Density, gm / cc after drying at 110°C / 24 hrs, max CCS, Kg / cm <sup>2</sup> , 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 1300 °C / 3 hrs, min	1.25 35.00 25.00 25.00 40.00	1.45 50.00 35.00 30.00 50.00	1.60 90.00 65.00 60.00 80.00
<b>THERMAL PROPERTIES</b> Refractoriness, OC / °C, min PLC, %, max after heating at 800°C / 3 hrs after heating at 1000°C / 3 hrs after heating at 1100°C / 3 hrs Thermal conductivity, K Cal / m / hr / °C at 500°C Hot Face, max	- ± 0.35 ± 0.55 0.10	12 OC / 1337 ± 0.80 - ± 1.20 0.20	14 OC / 1398 ± 0.70 - ± 1.10 0.28	<b>THERMAL PROPERTIES</b> Refractoriness, OC / °C, min PLC, %, max after heating at 1100°C / 3 hrs after heating at 1300°C / 3 hrs Thermal conductivity, K Cal / m / hr / °C at 500°C Hot Face, max	14 OC / 1398 ± 0.20 ± 1.00 0.32	14 OC / 1398 ± 0.20 ± 0.84 0.33	15 OC / 1430 ± 0.20 ± 1.00 0.45
BRAND NAME	PRILYTE - 9 HS	PRILYTE - LT	PRILYTE - POURABLE	BRAND NAME	PRILYTE - 11 Li	PRILYTE - 13 Li	PRILYTE - 15 Li
Type Nature of Bond Application Method	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping	Type Nature of Bond Application Method	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping	Insulating Castable Hydraulic Tamping
<b>GENERAL PROPERTIES</b> Max grain size, mm Water required for casting, % Max Service Temp, °C RTE at 1000°C, %	6 35 - 45 1200 0.58	6 24 - 32 500 0.50	6 60 - 70 900 0.60	<b>GENERAL PROPERTIES</b> Max grain size, mm Water required for casting, % Max Service Temp, °C RTE at 1000°C, %	6 32 - 36 1350 0.60	6 30 - 34 1400 0.60	6 25 - 30 1400 0.60
<b>CHEMICAL ANALYSIS</b> Al <sub>2</sub> O <sub>3</sub> , %, min Fe <sub>2</sub> O <sub>3</sub> , %, max	38.00 3.00	20.00 2.50	20.00 8.80	<b>CHEMICAL ANALYSIS</b> Al <sub>2</sub> O <sub>3</sub> , %, min Fe <sub>2</sub> O <sub>3</sub> , %, max	40.00 1.50	40.00 1.50	45.00 1.50
<b>PHYSICAL PROPERTIES</b> Bulk Density, gm / cc after drying at 110°C / 24 hrs, max CCS, Kg / cm <sup>2</sup> , min after drying at 110 °C / 24 hrs, min after drying at 500 °C / 24 hrs, min after heating at 800 °C / 3 hrs, min after heating at 1200 °C / 3 hrs, min	1.00 21.00 - 10.00 14.00	1.45 95.00 45.00 - -	0.70 15.00 - 12.00 -	<b>PHYSICAL PROPERTIES</b> Bulk Density, gm / cc after drying at 110°C / 24 hrs, max CCS, Kg / cm <sup>2</sup> , 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 1300 °C / 3 hrs, min after heating at 1350 °C / 3 hrs, min	1.25 45.00 30.00 30.00 50.00 -	1.45 75.00 40.00 40.00 - 50.00	1.60 120.00 75.00 75.00 - 90.00
<b>THERMAL PROPERTIES</b> Refractoriness, OC / °C, min PLC, %, max after heating at 500°C / 3 hrs after heating at 800°C / 3 hrs after heating at 1100°C / 3 hrs Thermal conductivity, K Cal / m / hr / °C at 500°C Hot Face, max	14 OC / 1398 - ± 0.60 ± 1.00 0.28	- ± 0.52 - - 0.40	- - ± 1.50 - 0.20	<b>THERMAL PROPERTIES</b> Refractoriness, OC / °C, min PLC, %, max after heating at 1100°C / 3 hrs after heating at 1300°C / 3 hrs after heating at 1350°C / 3 hrs Thermal conductivity, K Cal / m / hr / °C at 500°C Hot Face, max	14 OC / 1398 ± 0.20 ± 1.00 - 0.35	15 OC / 1430 ± 0.20 - ± 0.80 0.38	15 OC / 1430 ± 0.20 - ± 1.00 0.45