



Technical Data Sheet Insulating Castables

Product Name		Ultra Lyte-7	Ultra Lyte-9	Ultra Lyte-11	Ultra Lyte-13	Ultra Lyte-15
Type Of bond		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Max. recommended Temp.°C		1100	1200	1300	1350	1350
Material required (Kg/m³)		850	1000	1300	1480	1350
Maximum grain size (mm)		6	6	6	6	5
Water required for installation (%)		50- 60	38- 45	30- 38	26- 34	25- 35
Installation method		Casting/ Tamping	Casting/ Tamping	Casting/ Tamping	Casting/ Tamping	Casting/ Gunning
Chemical Properties	Al ₂ O ₃	26- 30	28- 32	32- 35	36- 40	38- 42
	Fe ₂ O ₃	7.0- 8.5	4.0- 6.0	3- 3.35	2.8- 3.5	4- 6
	CaO	12- 15	11- 14	11- 13	10- 12	8- 10
Bulk Density at 110°C/24 hrs (gms/ cc³)		0.8- 0.9	0.9- 1.05	1.20- 1.35	1.35- 1.50	1.40- 1.60
Cold Crushing Strength (MPA)	at 110°C/24h	1.2- 1.6	1.6- 2.5	3.5- 5.0	5.0- 7.0	10-13
	at 800°C/24h	-	-	-	-	9- 11
	at 1100°C/ 3hrs	-	-	2.5- 4.0	3.0- 7.0	-
	at 1200°C/ 3hrs	0.6- 1.2	1.0- 1.8	-	-	-
	at 1300°C/ 3hrs	-	-	4.0- 5.5	5.0- 7.0	-
Perm. Linear Change (%)	at 800° C/ 3hrs	-	-	-	-	-0.2 to -0.4
	at 1100° C/ 3hrs	-0.5 to -1.5	-	-0.2 to -0.6	-0.3 to 0.3	-
	at 1200° C/ 3hrs	-	-0.2 to -2.0	-	-	-
	at 1300° C/ 3hrs	-	-	0 to 1.0	-0.8 to 0.8	-
Thermal Conductivity (W/mK)	at 500°C HF	0.17- 0.2	0.2- 0.28	0.3- 0.35	0.32- 0.37	-
	at 800°C HF	-	-	-	-	0.52- 0.57
Packaging		HDPE/ Paper Bags or Big bags	HDPE/ Paper Bags or Big bags	HDPE/ Paper Bags or Big bags	HDPE/ Paper Bags or Big bags	HDPE/ Paper Bags or Big bags
State Of Delivery		Dry	Dry	Dry	Dry	Dry
Shelf Life (storage in dry conditions)		12 months	12 months	12 months	12 months	12 months