



Technical Data Sheet Low Cement Castables

Product Name		Ultra Cast LC-45	Ultra Cast LC-60	Ultra Cast LC-70	Ultra Cast LC-80	Ultra Cast LC-90
Type Of Bond		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Max. recommended Temp.°C		1450	1600	1600	1700	1700
Material required (Kg/m ³)		2200	2550	2650	2800	3050
Maximum grain size (mm)		6	6	6	6	6
Water required for installation (%)		6- 7.5	5.5- 6.2	4.5- 5.5	4.5- 5.2	4.0- 5.0
Installation method		Casting	Casting	Casting	Casting	Casting
Chemical Properties	Al ₂ O ₃	40- 45	57- 61	68- 72	78- 81	87- 91
	Fe ₂ O ₃	1.0- 1.75	1.5- 1.9	1.4- 2.0	1.7- 2.2	0.9- 1.5
Bulk density at 110°C/ 24hrs (gm/cm ³)		2.15- 2.25	2.5- 2.6	2.60- 2.70	2.75- 2.9	2.95- 3.05
Cold Crushing strength (MPa)	at 110°C/24 hrs.	50- 70	67- 77	60- 80	70- 85	80- 100
	at 1100°C/3hrs.	-	80- 90	70- 90	85- 100	90- 120
	at 1200°C/3 hrs.	60- 80	-	-	-	-
	at 1400°C/3 hrs.	70- 90	-	-	-	-
	1500°C/3 hrs.	-	80- 105	80- 110	-	-
	1550°C/3hrs.	-	-	-	110- 125	110- 125
Perm. Linear Change %	at 1100°C/3 hrs.	-	-0.3 to 0.30	-0.40 to 0.40	-	-
	at 1200°C/3 hrs.	-0.1 to -0.2	-	-	-	-
	at 1400°C/3 hrs.	-1.50 to -1.50	-	-	-	-
	at 1500°C/3 hrs.	-	-1.0 to 1.0	1.8 to 1.0	-	-
	at 1550°C/3hrs	-	-	-	1.8 to -1.8	1.80 to -0.50
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)		6 months	6 months	6 months	6 months	6 months