

CASTABLES AND MONOLITHICS PRODUCTS

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1. CONVENTIONAL AND HIGH PURITY DENSE CASTABLES

Product	Max Grain Size mm	Al ₂ O ₃ % mm	Fe ₂ O ₃ % Max	Dry Density g/cc	CCS at 110 deg C /24 hrs	PCE OC	PLC % At °C/Hrs Max
Champcast-A	5	88	0.80	2.75	600	37	±1.00 at 1550°C/3 hrs
Champcast 90-Spl	5	90	0.80	2.85	800	37	±1.00 at 1550°C/3 hrs
Champcast-K	5	60	1.00	2.20	350	31	±1.50 at 1550°C/3 hrs
Champcast-C	5	50	1.30	2.10	350	30	±1.00 at 1550°C/3 hrs
Champcast-94	5	94	0.30	2.80	600	38	±0.50 at 1550°C/3 hrs
Champcast-7	5	96	0.30	2.80	400	38	±0.80 at 1550°C/3 hrs

2. MEDIUM PURITY DENSE CASTABLES

Product	Max Grain Size mm	Al ₂ O ₃ % mm	Fe ₂ O ₃ % Max	Dry Density g/cc	CCS at 110 deg C /24 hrs	PCE OC	PLC % At °C/Hrs Max
ChampCrete-N	5	45	4.00	2.10	250	20	±1.00 at 1350°C/3 hrs
ChampCrete-Spl	5	45	4.00	2.20	400	16	±1.00 at 1350°C/3 hrs
Champcast-K	20	40	3.00	2.20	400	16	±1.00 at 1350°C/3 hrs
ChampCrete-Super	5	70	5.00	2.50	350	31	±1.00 at 1400°C/3 hrs

3. FIRE CLAY AND HIGH ALUMINA CASTABLES

Products	Al ₂ O ₃ %	Fe ₂ O ₃ %	B.D gm/cc	Cold Crushing Strength (Kg/Cm ²)			PLC %	PCE (°C)	Grain Size (mm)
				Dried at 110°C /24 hrs	Fired at 1400°C /3 hrs	Fired at 1500°C /3 hrs			
Champcast-FH-14	40	2.5	1.9	250	350	-	±1.5 (1400°C/3h)	1580	0-5
Champcast-FH-45	45	4	2.1	250	350	-	±1.0 (1400°C/3h)	1580	0-5

Champcast-FH-70	70	5	2.5	350	450	-	±1.0 (1400°C/3h)	1680	0-5
Champcast-FH-50	50	1.5	2.1	350	250	400	±1.0 (1500°C/3h)	1660	0-5
Champcast-FH-50 PLUS	50	1	2.1	500	350	500	±1.0 (1500°C/3h)	1700	0-5
Champcast-FH-60	60	1	2.2	350	250	450	±1.5 (1500°C/3h)	1680	0-5
Champcast-FH-60 PLUS	60	1	2.2	500	350	500	±1.0 (1500°C/3h)	1760	0-5
Champcast-FH-70	70	1.5	2.5	500	300	550	±1.5 (1500°C/3h)	1760	0-5
Champcast-FH-80	80	1.5	2.6	550	300	550	±1.5 (1500°C/3h)	1780	0-5
Champcast-FH-90	88	1.5	2.75	550	300	550	±1.5 (1500°C/3h)	1780	0-5
Champcast-FH-90 PLUS	90	1.0	2.8	600	300	550	±1.5 (1550°C/3h)	1800	0-5

4. INSULATION CASTABLES

Products	Max Grain Size (mm)	Al ₂ O ₃ %	Fe ₂ O ₃ %	Dry Density kg/cc	CCS at 110°C/24 hrs	PCE (°C)	PLC % at °C/ hrs Max
Champcast-Insul-4	6	30	11.00	550	4	-	±0.4 800/3 HRS
Champcast-Insul-9	6	30	6.00	1000	15	14	±0.6 800/3hrs
Champcast-Insul-7	6	30	8.50	850	12	12	±0.8 800/3hrs
Champcast-Insul-11	6	30	3.50	1250	35	14	±0.2 1100/3 hrs
Champcast-Insul-13	6	35	3.50	1450	50	14	±0.2 1100/3 hrs
Champcast-Insul-15	6	35	3.20	1600	90	15	±0.2 1100/3 hrs
Champcast-Insul-11 Li	6	40	1.50	1250	45	14	±0.2 1100/3 hrs
Champcast-Insul-13 Li	6	40	1.50	1450	80	15	±0.2 1100/3 hrs
Champcast-Insul-15 Li	6	40	1.50	1600	130	15	±0.2 1100/3 hrs

5. LOW CEMENT CASTABLES

Products	Max Grain Size (mm)	Al ₂ O ₃ %	Fe ₂ O ₃ %	Dry Density kg/cc	CCS at 110°C/24 hrs	PCE (°C)	PLC % at °C/ hrs Max
Champcast-LC-45	6	45	1.00	2.30	700	32	±1.00 1500/3 HRS

Champcast-LC-60	6	60	1.50	2.60	750	36	±1.00 1500/3 HRS
Champcast-LC-70	6	70	1.50	2.70	750	36	±1.00 1550/3 HRS
Champcast-LC-80	6	80	1.80	2.90	800	37	±1.00 1550/3 HRS
Champcast-LC-90	6	90	1.00	3.00	950	37	±1.00 1550/3 HRS
Champcast-LC-95	6	94	0.30	3.10	1000	38	±1.00 1550/3 HRS

6. CASTABLES FOR SPONGE IRON KILN

Products	B.D gm/cc 110°C /24 hrs	Cold Crushing Strength (Kg/Cm ²)				PLC % 1100°C /3 hrs	PLC (%)	Grain Size (mm)
		Dried at 110°C /24 hrs	800°C /3 hrs	Fired at 1100°C /3 hrs	1400°C /3 hrs			
Champcast-LC-45 SI	2.2	500	600	700	800	±0.3	±0.5 1400°C/3 HRS	(0-5)
Champcast-LC-60 SI	2.3	500	600	700	800	±0.3	±0.5 1400°C/3 HRS	(0-5)
Champcast-LC-62 MSI	2.3	600	700	800	900	±0.3	±0.5 1400°C/3 HRS	(0-5)
Champcast-LC-70 SI	2.4	600	700	800	900	±0.3	±0.5 1400°C/3 HRS	(0-5)
Champcast-LC-80 SI	2.5	700	800	900	1000	±0.3	±0.5 1400°C/3 HRS	(0-5)
Champcast-AH-50 SI	2.1	300	200	150	400	±0.5	±1.0 1400°C/3 HRS	(0-5)
Champcast-11 SI	1.25 max	40	30	40	-	±0.8	±1.0 1400°C/3 HRS	(0-5)

7. FLOW CONTROL MONOLITHICS

Product	Al ₂ O ₃ % mm	Grading (mm)	Application Area
CC-95M	90	0-0.2	Jointing Mortar for Slide Plate & Nozzle
CC-95M	94	0-5	Ramming mass for Fixing well Block

Grading : 95% min. will pass through the maximum grain size indicated.