

## CASTABLES for POWER

### CONVENTIONAL CEMENT

Products	Chemistry (%)				Density (1500°F)		C.C.S. (815°C)		Temp. Limit		Installation Method
	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	ZrO <sub>2</sub>	SiC	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	Mpa	psi	°C	°F	
KASTITE D	35.9	45.9			1.60	100	4.13	600	1260	2300	cast
KASTITE LHS	42.2	39.2			1.95	122	9.65	1,400	1427	2600	cast, trowel, hand pack
CAST 2550 LI C	46.1	39.9			2.21	138	33.28	4,830	1399	2550	cast
GUNCAST 25	43.9	40.8			1.91	119	24.80	3,600	1371	2500	cast, hand pack, gun
CAST 28	46	43.3			2.05	128	21.84	3,170	1538	2800	cast
CAST 28 LI	47.1	43.3			2.08	130	28.66	4,160	1538	2800	cast
TUFFCRETE 2800	44.4	48			2.27	142	82.68	12,000	1538	2800	vib cast, pump, shotcrete
KAST TECH 60	55.9	36.6			2.34	146	55.12	8,000	1649	3000	cast
KAST TECH 61	60.1	32.5			2.34	146	55.12	8,000	1649	3000	cast
CAST 3400	95.3	0.1			2.77	173	75.79	11,000	1871	3400	cast

### LOW CEMENT

Products	Chemistry (%)		Density (1500°F)		C.C.S. (815°C)		Temp. Limit		Installation Method
	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	Mpa	psi	°C	°F	
LCF 798 P	61.5	35			2.74	171	59.94	8,700	vib cast, pump
DURACON 28	46.2	48.1			2.23	139	53.74	7,800	vib cast
DURACON 28-10	41	43.6		9.7	2.26	141	59.25	8,600	vib cast
DURACON 30	47.2	46.3			2.34	146	68.80	9,985	vib cast
DURACON 32	63.1	31.6			2.55	159	106.17	15,410	vib cast
DURACON 70 C	69.2	25.6			2.71	169	113.69	16,500	vib cast
DURACON NR-SA	77	18.1			2.77	173	87.16	12,650	vib cast
DURACON 86	87	8.7			2.93	183	109.55	15,900	vib cast
TUFF-FLO FSM	34.8	61.3			2.18	136	54.29	7,880	vib cast, pump
TUFFCRETE FS	15.6	81.8			2.00	125	82.68	12,000	vib cast, pump, shotcrete



TUFFCRETE 47	47.1	46.5			2.21	138	82.68	12,000	vib cast, pump, shotcrete
TUFFCRETE ARZ	43.9	44.3	1.1	4.9	2.32	145	89.57	13,000	vib cast, pump, shotcrete
TUFFCRETE 60 A SR	59.6	36.2			2.58	161	104.73	15,200	vib cast, pump, shotcrete
TUFFCRETE 60 M	60.5	34.3			2.52	157	106.80	15,500	vib cast, pump, shotcrete
TUFFCRETE 60 X	60.3	33.9			2.48	155	92.33	13,400	vib cast, pump, shotcrete
TUFFCRETE 60 SiC	21.3	12.1		63.6	2.60	162	113.69	16,500	vib cast, pump, shotcrete
TUFFCRETE 65 M	64.8	30.5			2.61	163	138.39	20,085	vib cast, pump, shotcrete
TUFFCRETE 70 ABR	69.6	24.8			2.69	168	144.69	21,000	vib cast, pump, shotcrete
TUFFCRETE 80 SiC FINE	12.8	6		79	2.61	163	128.84	18,700	vib cast, pump, shotcrete
TUFFCRETE 86	85.4	10.1			2.82	176	124.02	18,000	vib cast, pump, shotcrete
TUFFCRETE 90 FINE	89.5	6.2			3.14	196	84.75	12,300	vib cast, pump, shotcrete
TUFFCRETE 90	90.4	8.2			2.98	186	62.01	9,000	vib cast, pump, shotcrete

### ULTRA LOW CEMENT

Products	Chemistry (%)		Density (1500°F)		C.C.S. (815°C)		Temp. Limit		Installation Method
	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	Mpa	psi	°C	°F	
CW 709	78	5.1		11.5	3.20	200	0.00		vib cast, pump, shotcrete
TUFFCRETE 61 A ULC	61	35.5			2.61	163	70.28	10,200	vib cast, pump, shotcrete
TUFFCRETE 90	90.4	8.2			2.98	186	62.01	9,000	vib cast
ULTRACON 34 C	92.8	6.2			3.03	189	73.03	10,600	vib cast
ULTRACON 95	94.4	5			2.98	186	0.00		

### NO CEMENT

Products	Chemistry (%)		Density (1500°F)		C.C.S. (815°C)		Temp. Limit		Installation Method
	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	Mpa	psi	°C	°F	



NANO-TEK FS P	0.2	99.5			1.84	115	31.69	4,600	vib cast, pump, shotcrete
NANO-TEK 61 HS	61.4	35.2			2.45	153	97.84	14,200	vib cast, pump, shotcrete
NANO-TEK 60 Z HS	58.4	35.5	2.8		2.52	157	99.28	14,410	vib cast, pump, shotcrete
NANO-TEK 55 A SR HS	56	36.3	1.3	4.9	2.53	158	62.35	9,050	vib cast, pump, shotcrete
NANO-TEK 805 ARZ	48.4	34.7	5.7	8.1	2.50	156	84.23	12,225	vib cast, pump, shotcrete
NANO-TEK 90					0.00		0.00		vib cast, pump, shotcrete
NANO-TEK 75 SiC	17.1	5.2		74.9	2.66	166	35.66	5,175	vib cast, pump, shotcrete
QUICK-FIRE 55	55.4	36.7			2.32	145	15.36	2,230	vib cast
QUICK-FIRE 88	88.2	3.9			2.74	171	18.95	2,750	vib cast
QUICK-FIRE 90	89.1	2.1			0.00		36.93	5,360	vib cast

### HIGH STAINLESS FIBER CONTENT

Products	Chemistry (%)		Density (1500°F)		C.C.S. (815°C)		Temp. Limit		Installation Method
	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	Mpa	psi	°C	°F	
ARMORMAX 28 SiC	45.4	21.8	1	27.3	2.69	168	82.68	12,000	vib cast, pump, shotcrete
ARMORMAX 608	59.9	27.1		8.2	2.63	164	103.96	15,089	vib cast, pump, shotcrete
ARMORMAX 70 SR	70.1	25.5			2.66	166	117.13	17,000	vib cast, pump, shotcrete
ARMORMAX NR-SA	82.4	11.9			3.00	187	185.34	26,900	vib cast, pump, shotcrete
ARMORMAX 85	84.4	10.5			2.92	182	175.70	25,500	vib cast, pump, shotcrete
ARMOMAX 90 SR	89.2	7.8			3.00	187	113.69	16,500	vib cast, pump, shotcrete
ARMORMAX AZS 5 HZR	40.9	28.7	26.8		3.16	197	112.72	16,360	vib cast, pump, shotcrete

### INSULATING MIXES CAST

Products	Chemistry (%)	Density (1500°F)	C.C.S. (815°C)	Temp. Limit	Installation Method
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	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	Mpa	psi	°C	°F	
INSULMIX 19 L	33.7	25.5			0.30	19	0.34	50	cast, gun
INSULMIX 20	23.9	52.3			0.48	30	1.72	250	cast, gun
INSULMIX 20 HS	38.2	40.9			0.98	61	4.82	700	cast, gun
INSULMIX 20 LI	36.7	42.5			0.00		0.00		cast, gun
INSULMIX 23	42.6	35			0.80	50	2.07	300	cast, gun
INSULMIX 24	31.6	43.9			0.96	60	4.13	600	cast, gun
INSULMIX 24 HS	46.5	36.4			0.96	60	4.82	700	cast, gun
INSULMIX 24-75	20.7	59.3			1.23	77	1.55	225	cast, gun
INSULMIX 3A	40	39.1			0.00		0.00		cast, gun
INSULMIX 25 HS	29.3	51.9			1.47	92	19.29	2,800	cast, gun
INSULMIX 26 LI	41.3	43			1.44	90	8.27	1,200	cast, gun
INSULMIX 60 LI P	39.7	47.7			1.03	64	4.82	700	cast, pump, shotcrete
INSULMIX 80 LI P	46.8	42.4			1.28	80	8.27	1,200	cast, pump shotcrete

