

HIGH ALUMINA-LOW IRON

BRAND	Al ₂ O ₃ % min	Fe ₂ O ₃ % max	PCE Orton min	AP % max	BD gm/cm ³ min	CCS Kg/cm ² min	RUL Ta °c min	PLCAR °c/hrs/% max
MCL HA99	99	0.2	42	18	3.10	600	1700	1600/2/±0.1
MCL COR	97.5	0.3	40	18	3.10	800	1700	1600/2/±0.2
MCL MULCOR	85	0.3	39	18	2.80	700	1700	1600/2/±0.2
MCL HAH	88	1.5	38	18	3.00	1000	1500	1500/2/±0.5
Abrasion resistance 20-30 Morgan Marshall								
MCL 80SDP	80	1.2	37	17	2.90	800	1550	1600/2/±0.5
Phosphate bonded								
MCL 80SD	80	1.2	37	18	2.90	600	1550	1600/2/±0.5
MCL 80S	80	1.5	37	18	2.85	600	1550	1600/2/±1.0
MCL MULLD	72	0.3	38	17	2.65	700	1700	1600/2/±0.2
MCL MULL	72	0.5	38	19	2.55	600	1680	1600/2/±0.3
MCL 70D	70	1.2	37	20	2.60	600	1530	1600/2/±1.0
MCL 65AD	65	0.6	37	16	2.55	600	1680	1600/2/±0.5
MCL 62AD	62	0.6	37	16	2.50	600	1650	1600/2/±0.5
MCL 62SD	62	1.0	37	15	2.55	600	1500	1600/2/±0.5
MCL 62D	62	1.0	37	18	2.45	600	1550 at 4kg/cm ²	1600/2/±0.5
MCL 62	62	1.3	36	22	2.40	400	1520	1500/2/±0.5
MCL 60K	60	1.0	36	18	2.40	500	1540	1500/2/±0.5
MCL SILLD	58	1.0	36	16	2.40	500	1550	1500/2/±0.3
MCL SILL	56	1.5	36	23	2.30	450	1520	1500/2/±0.8
MCL 50K	50	1.5	34	23	2.25	400	1500	1450/2/±0.5

The data relates to standard pressable shapes. These data are subject to variation for blocks and non-pressable shapes. Size tolerance: ± 1.5% or ± 2 mm whichever is greater.

HIGH ALUMINA-HIGH IRON

BRAND	Al ₂ O ₃ % min	Fe ₂ O ₃ % max	PCE Orton min	AP % max	BD gm/cm ³ min	CCS kg/cm ² min	RUL ta °c min	PLCAR °c/hrs/% max
MCL 80BD	80	2.0	37	21	2.75	550	1520	1600/2/+1.5
MCL 80B	80	3.0	37	23	2.70	450	1480	1600/2/+1.5
MCL 75BDS	75	1.5	37	21	2.70	600	1520	1600/2/+2.5
MCL 70BD	70	2.0	37	22	2.70	550	1480	1600/2/+2.5
MCL 70B	70	3.0	36	23	2.65	500	1470	1600/2/+3.0
MCL 70BE	70	4.0	36	23	2.60	450	1430	1600/2/+3.0
MCL 60B	60	3.0	34	23	2.50	400	-	1500/2/+2.0
MCL 50B	50	2.5	34	23	2.30	350	-	1500/2/+2.0
MCL 45B	45	2.5	33	23	2.25	300	-	1450/2/±1.0

The data relates to standard pressable shapes. These data are subject to variation for blocks and non-pressable shapes. Size tolerance: ± 1.5% or ± 2 mm whichever is greater.

FIRECLAY

BRAND	Al ₂ O ₃ % min	Fe ₂ O ₃ % max	PCE Orton min	AP % max	BD gm/cm ³ min	CCS kg/cm ² min	RUL ta °c min	PLCAR °c/hrs/% max
MCL SD	48	1.0	34	12	2.40	700	1550	1550/2/±0.5
MCL S	45	1.5	34	14	2.35	600	1520	1500/2/±0.5
MCL 45SD	45	1.5	34	16	2.30	600	1500	1500/2/±0.5
MCL 45D	45	1.5	33	17	2.25	500	1480	1480/2/±0.5
MCL 45	45	1.5	33	23	2.25	400	1450	1450/2/±0.5
MCL 42SD	42	1.5	33	17	2.25	500	1470	1450/2/±0.3
MCL 42D	42	2.0	33	19	2.25	400	1450	1450/2/±0.5
MCL 42	42	2.0	32	23	2.20	300	1450	1450/2/±0.8
MCL 40SD	40	1.8	32	18	2.20	400	1430	1400/2/±0.4
MCL 40D	40	2.0	32	23	2.15	300	1400	1400/2/±0.5
MCL 40	40	2.0	32	25	2.10	200	1400	1400/2/±1.0
MCL HG	35	2.0	31	18	2.10	300	1400	1400/2/±0.5
MCL 30D	34	2.0	31	23	2.10	250	1370	1350/2/±0.5
MCL 30	30	2.0	30	25	2.00	200	1300	1350/2/±1.0

The data relates to standard pressable shapes. These data are subject to variation for blocks and non-pressable shapes. Size tolerance: ± 1.5% or ± 2 mm whichever is greater.

ZIRCON / ZIRCON MULLITE

BRAND	Al ₂ O ₃ % min	ZrO ₂ % max	Fe ₂ O ₃ % max	AP % max	BD gm/cm ³ min	CCS kg/cm ² min	RUL ta °c min
MCL ZIR67	-	67	0.2	17	3.75	1400	1700
MCL ZIR 65	-	65	0.5	17	3.70	800	1700
MCL ZIR63	-	63	0.5	20	3.60	600	1580
MCL ZM5725	56	24	0.2	15	2.95	2000	1700
MCL ZM7020	68	18	0.5	18	3.15	800	1650
MCL ZM5020	49	19	0.8	17	2.90	800	1600

ALUMINA CHROME

BRAND	Al ₂ O ₃ % min	Fe ₂ O ₃ % max	Cr ₂ O ₃ % min	PCE Orton min	AP % max	BD gm/cm ³ Min	CCS Kg/cm ² Min	RUL ta °c min	PLCAR °c/hrs/% max
MCL AC80	80	0.8	10	38	18	3.00	800	1650	1600/2/±0.2
MCL MULL CHR	70	0.7	5	38	15	2.75	750	1700	1600/2/±0.2
MCL AC70	70		15	38	22	3.00	800	1650	1600/2/±0.5
MCL AC60	60		10	38	21	3.00	900	1650	1600/2/±1.0

ALUMINA SIC CARBON

BRAND	Al ₂ O ₃ % min	Fixed Carbon % min	SIC %	AP % max	BD gm/cm ³ Min	CCS Kg/cm ² Min	RUL ta °c min	MOR
MCL ALC55	55	8	4	7	2.80	450	1650	150
MCL ALC60	60	12	6	7	2.80	450	1700	140
MCL ALC65	66	8	4	6	2.85	450	1700	150
MCL ALC70	72	10	5	6	2.95	500	1700	170

The data relates to standard pressable shapes. These data are subject to variation for blocks and non-pressable shapes. Size tolerance: ± 1.5% or ± 2 mm whichever is greater.

SILICON CARBIDE

BRAND	SiC % min	PCE Orton min	AP % max	BD gm/cm ³ min	CCS kg/cm ² min	RUL ta °c min
MCL SIC I	85	36	18	2.40	800	1540
MCL SIC II	65	30	22	2.25		
MCL SIC III	35	30	23			

PURGING REFRACTORIES

BRAND	Al ₂ O ₃ % min	Fe ₂ O ₃ % max	PCE Orton min	AP % max	BD gm/cm ³ min	CCS kg/cm ² min	RUL ta °c min	PLCAR °c/hrs/% max
MCL HA POR	85	1.0	38	32	2.40	350	1600	1600/2/±0.5

The data relates to standard pressable shapes. These data are subject to variation for blocks and non-pressable shapes. Size tolerance: ± 1.5% or ± 2 mm whichever is greater.