

LOW CEMENT CASTABLES

BRAND NAME	Maxmon 45	Maxmon 50	Maxmon 60	Maxmon 70	Maxmon 70 (LI)	Maxmon 80
GENERAL PROPERTIES						
Features	High Strength & Low Lime	High Strength & Low Lime	High Strength & Low Lime	High Strength & Low Lime	High Strength Low Iron & Low Lime	High Strength & Low Lime
Installation	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting
Shelf Life (months)	4	4	4	4	4	4
Maximum Service Temperature (°C)	1550	1550	1600	1600	1650	1700
Maximum Grain Size (mm)	6	6	6	6	6	6
Water Required for Casting (%)	5.5-6.5	5.5-6.5	5.2-6.2	4.5-5.5	4.5-5.5	4.5-5.5
Delivery State	Dry Powder	Dry Powder	Dry Powder	Dry Powder	Dry Powder	Dry Powder
Packing in Polythene Bags (kg)	25/50	25/50	25/50	25/50	25/50	25/50
CHEMICAL ANALYSIS (wt%)						
Al ₂ O ₃	44-48	44-48	58-62	68-72	68-72	78-82
Fe ₂ O ₃	1.2-1.4	1.3-1.5	1.4-1.6	1.4-1.6	0.8-1.0	1.6-2.0
PHYSICAL PROPERTIES						
Bulk Density (g/cc) after Drying at 110 ^o C/24h	2.30-2.40	2.30-2.40	2.50-2.65	2.65-2.75	2.70-2.80	2.80-2.95
MECHANICAL PROPERTIES						
Cold Crushing Strength (kg/cm ²)						
After Drying at 110 ^o C/24h	600-700	600-700	650-750	700-800	750-850	800-900
After Firing at 800 ^o C/3h	750-850	750-900	800-900	800-900	850-950	900-1000
After Firing at 1100 ^o C/3h	800-900	800-950	900-1000	900-1000	950-1100	1000-1100
After Firing at 1500 ^o C/3h	900-1150	950-1250	1000-1100	1000-1200	1050-1250	1200-1300
THERMAL PROPERTIES						
Refractoriness (°C/OC) min.	1717/32	1717/32+	1785/35+	1785/35+	1804/36+	1804/36+
Permanent Linear Change (%)						
After Firing at 800 ^o C/3h	±0.25	±0.25	±0.25	±0.25	-0.1 to -0.2	±0.2
After Firing at 1100 ^o C/3h	-0.1 to -0.4	-0.1 to -0.4	-0.1 to -0.4	-0.1 to -0.4	-0.15 to -0.3	-0.1 to -0.3
After Firing at 1500 ^o C/3h	-1.0 to -2.0	-1.0 to -1.8	±1.0	±1.5	±0.8 at 1550 ^o C/3h	±1.2
Application Area	DRI, Cement Kiln, Incinerators, Lime Kiln, Tundish	DRI	DRI, Cement Kiln, Incinerators, Lime Kiln,	Cement Kiln, DRI, Incinerators, Aluminium, Torpedo Ladle	Cement Kiln, Incinerators, Steel Ladle, Tundish	DRI, Aluminium Industry, Lances, Incinerators

NOTES

- 1) Mahakoshal does not warrant the accuracy, fitness for purpose or updates of any information disclosed herein. Specification of the products may change based on the geographical area to be supplied.
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LOW CEMENT CASTABLES

BRAND NAME	Maxmon 85	Maxmon 90	Maxmon 95	Maxmon SIC	Maxmon SPL (A)	Maxmon ABR 75
GENERAL PROPERTIES						
Features	High Strength & Low Lime	High Strength & Low Lime	High Strength & Low Lime	High Strength & Abrasion Resistant	High Strength & Low Lime	High Strength & Low Lime
Installation	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting
Shelf Life (months)	4	4	4	4	4	4
Maximum Service Temperature (^o C)	1700	1700	1800	1500	1600	1650
Maximum Grain Size (mm)	8	6	6	6	6	8
Water Required for Casting (%)	4.5-5.5	4.0-5.0	4.0-5.0	5.0-6.0	5.0-6.0	4.5-5.5
Delivery State	Dry Powder	Dry Powder	Dry Powder	Dry Powder	Dry Powder	Dry Powder
Packing in Polythene Bags (kg)	25/50	25/50	25/50	25/50	25/50	25/50
CHEMICAL ANALYSIS (wt%)						
Al ₂ O ₃	82-85	86-90	92-95	35-45	58-62	72-75
Fe ₂ O ₃	0.8-1.2	1.0 to 1.2	0.1 to 0.3	0.8 to 1.2 SiC = 20-25	0.9 to 1.2	1.1 to 1.3
PHYSICAL PROPERTIES						
Bulk Density (g/cc) after Drying at 110 ^o C/24h	2.80-2.95	2.90-3.05	2.95-3.15	2.40-2.55	2.55-2.65	2.70-2.80
MECHANICAL PROPERTIES						
Cold Crushing Strength (kg/cm ²)						
After Drying at 110 ^o C/24h	850-1000	900-1000	900-1000	550-700	800-900	800-950
After Firing at 800 ^o C/3h	950-1100	1000-1100	1000-1100	700-900	900-1100	900-1000
After Firing at 1100 ^o C/3h	1050-1200	1100-1200	1100-1200	800-950	1100-1250	1000-1150
After Firing at 1500 ^o C/3h	1150-1400	1200-1400	1200-1400	850-1000	1300-1400	1200-1500
THERMAL PROPERTIES						
Refractoriness (^o C/OC) min.	1820/37+	1820/37+	1835/38+	1717/32+	1785/35+	1804/36+
Permanent Linear Change (%)						
After Firing at 800 ^o C/3h	-0.1 to -0.20	±0.20	±0.20	±0.25	±0.25	-0.1 to -0.25
After Firing at 1100 ^o C/3h	-0.15 to -0.3	-0.1 to -0.3	-0.1 to -0.3	±0.4	±0.3	-0.15 to -0.35
After Firing at 1500 ^o C/3h	-0.8 to -1.2	±1.0	±0.8	±1.2	±0.6	-1.0 to +0.8
Application Area	Cement Kiln	Lead Industry, DRI, Cement Industry, Striker Pads Launderers	Lead Industry, DRI, Cement Industry,	Cement Industry	Working Lining of Sponge iron & Pallet Kiln	Pellet, DRI

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