

HIGH PURITY DENSE CASTABLES

BRAND NAME	Maxheat A	Maxheat A (Patch)	Maxheat A (Supreme)	Maxheat A (Normal)	Maxheat M	Maxheat K	Maxheat K(SPL)
GENERAL PROPERTIES							
Features	High Purity, Dense	High Purity, Dense	High Purity, Dense	High Purity, Dense	High Purity, Dense	High Purity, Dense	High Strength, Dense
Installation	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting
Shelf Life (months)	9	9	9	9	9	9	9
Maximum Service Temp (^o C)	1750	1600	1650	1600	1700	1600	1600
Maximum Grain Size (mm)	5	5	5	5	5	5	5
Water Required for Casting (%)	9-11	13-15	9.5-11.5	10-12	9.5-11.5	11.0-12.5	11.5-12.5
Delivery State	Powder	Powder	Powder	Powder	Powder	Powder	Powder
Packing in Polythene Bags (kg)	25/50	25/50	25/50	25/50	25/50	25/50	25/50
CHEMICAL ANALYSIS (wt%)							
Al ₂ O ₃	85-88	76-78	82-84	78-82	78-82	56-60	57-61
Fe ₂ O ₃	1.20-1.80	1.80-2.20	2.00-2.30	1.80-2.40	1.60-2.00	1.00-1.30	0.8-1.2
PHYSICAL PROPERTIES							
Bulk Density (g/cc) after Drying at 110 ^o C/24h	2.65-2.80	2.45-2.55	2.55-2.70	2.45-2.60	2.50-2.60	2.15-2.25	2.15-2.30
MECHANICAL PROPERTIES							
Cold Crushing Strength (kg/cm ²)							
After Drying at 110 ^o C/24h	600-700	400-550	500-700	500-600	550-650	350-500	400-550
THERMAL PROPERTIES							
Refractoriness (^o C/OC) min.	1820/37+	1785/35+	1804/36+	1785/35+	1785/35+	1683/31+	1683/31+
Permanent Linear Change (%)							
After Firing at 1500 ^o C/3h	-1.2 to -2.5 at 1550 ^o C/3h	-2.3 to -2.8 at 1550 ^o C/3h	-1.2 to -2.5 at 1550 ^o C/3h	-1.0 to -2.0	-1.2 to -2.5	-1.2 to -2.4	-1.0 to -2.2
APPLICATIONS AREAS							
	Steel Ladle, Coil Coating, Lead Industry	Steel Ladle, Tundish	Foundry	Steel Ladle	Steel Ladle	Boiler, Non-Ferrous	Rolling Mills Non-Ferrous,



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.
- 2) Data shown are based on average results of production samples and are subject to normal variation during individual tests.
- 3) Max. and Min. values are given separately for testing purposes.
- 4) The information contained herein are exclusive property of Mahakoshal.

Product - Unshaped

HIGH PURITY DENSE CASTABLES

BRAND NAME	Maxheat K (Supreme)	Maxheat K (Normal)	Maxheat C	Maxheat C (SPL)	Maxcast 94	Maxcast 97
GENERAL PROPERTIES						
Features	High Strength, Dense	High Purity, Dense	High Purity, Dense	High Purity, Dense	High Purity, Dense	High Purity, Dense
Installation	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting	Vibro-Casting
Shelf Life (months)	9	9	9	9	9	9
Maximum Service Temp (^o C)	1500	1500	1500	1500	1800	1850
Maximum Grain Size (mm)	5	5	5	5	6	6
Water Required for Casting (%)	11.2-12.2	11-13	11-12	11-12	8.0-9.5	8.0-9.5
Delivery State	Powder	Powder	Powder	Powder	Powder	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	50-55	52-57	48-52	48-52	93-95	95-96.5
Fe ₂ O ₃	1.3-1.7	1.10-1.40	0.80-1.50	0.80-1.50	0.12-0.35	0.10-0.30
PHYSICAL PROPERTIES						
Bulk Density (g/cc) after Drying at 110 ^o C/24h	2.25-2.35	2.10-2.25	2.10-2.25	2.10-2.20	2.75-2.85	2.75-2.85
MECHANICAL PROPERTIES						
Cold Crushing Strength (kg/cm ²)						
After Drying at 110 ^o C/24h	450-600	300-400	350-450	400-500	500-700	350-550
THERMAL PROPERTIES						
Refractoriness (^o C/OC) min.	1665/30+	1646/28+	1665/30+	1665/30+	1820/37+	1835/38+
Permanent Linear Change (%)						
After Firing at 1500 ^o C/3h	-1.0 to -2.5	-1.2 to -2.4	-1.0 to -2.5	-1.0 to -2.0	± 1.0 at 1550 ^o C/3h	-0.5 to +1.5 at 1550 ^o C/3h
APPLICATIONS AREAS						
	Rolling Mills Non-Ferrous,	Boiler, Non-Ferrous	DRI, Foundry, Non-Ferrous	DRI, Foundry, Non-Ferrous	Copper Industry, Petro-Chemicals	Copper Industry, Petro-Chemicals

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