PLASTIC MASSES (DOUBLE COMPONENT)

BRAND NAME		MAXPHOS-50	MAXPHOS-60	MAXPHOS-70
GENERAL PROPERTIES	**Units**			
TYPE		Ramming Mass (Double Component)	Ramming Mass (Double Component)	Ramming Mass (Double Component)
NATURE OF BOND		Chemical	Chemical	Chemical
BASE RAW MATERIALS		Calcined Clay, Andalusite, Sillimanite	Tabular Alumina, Calcined Clay, Andalusite Sillimanite	Tabular Alumina, Sillimanite
SHELF LIFE	**Months**	9	9	9
SERVICE TEMPERATURE (max)	**^{0}C**	1550	1600	1600
GRAIN SIZE (max)	**mm**	6	6	6
BINDER REQUIREMENT	**wt%**	8.5 - 9.5	8.5 - 9.5	10 - 11
INSTALLATION METHOD		Ramming (Hand / Machine)	Ramming (Hand / Machine)	Ramming (Hand / Machine)
CHEMICAL ANALYSIS:				
Al_2O_3	**wt%**	50 ± 2	60 ± 2	70 ± 2
Fe_2O_3 (max)		1.5	1.5	1.2
P_2O_5 (min)		2.5	2.5	3.0
Bulk Density (BD) after Drying at 110°C for 24h (min)	**g/cc**	2.35	2.50	2.55
MECHANICAL PROPERTIES				
Cold Crushing Strength (CCS) after :	**kg/cm^2**			
Drying at 110°C/24h (min)		300	300	300
Fired at 1300°C/3h (min)		500	600	600
Cold Modulus of Rapture (CMOR) after :	**kg/cm^2**			
Drying at 110°C/24h (min)		70	80	90
Fired at 1300°C/3h (min)		160	180	180
Abrasion Loss (ASTM C704) :	**cc**			
Fired at 1300°C/3h (max)		3.5	3.2	3.2
THERMAL PROPERTIES				
Permanent Linear Change (PLC) after :	**%**			
Fired at 1300°C/3h		± 1.0	± 0.8	± 0.8
Thermal Conductivity at 1000^0 C (Hot Face Temperature) (max)	**W/m.K**	1.4	1.5	1.6

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.

PLASTIC MASSES (DOUBLE COMPONENT)

BRAND NAME		MAXPHOS-80	MAXPHOS-90
GENERAL PROPERTIES	**Units**		
TYPE		Ramming Mass (Double Component)	Ramming Mass (Double Component)
NATURE OF BOND		Chemical	Chemical
BASE RAW MATERIALS		Tabular Alumina Sillimanite	Tabular Alumina
SHELF LIFE	**Months**	9	9
SERVICE TEMPERATURE (max)	**0C**	1650	1700
GRAIN SIZE(max)	**mm**	6	6
BINDER REQUIREMENT	**wt%**	10 - 11	10 - 11
INSTALLATION METHOD		Ramming (Hand / Machine)	Ramming (Hand / Machine)
CHEMICAL ANALYSIS:			
Al_2O_3	**wt%**	80 ± 2	90 ± 2
Fe_2O_3 (max)		1.0	0.3
P_2O_5 (min)		3.0	3.5
Bulk Density (BD) after Drying at 110°C for 24h (min)	**g/cc**	2.60	2.65
MECHANICAL PROPERTIES			
Cold Crushing Strength (CCS) after :	**kg/cm^2**		
Drying at 110°C/24h (min)		300	350
Fired at 1300°C/3h (min)		700	750
Cold Modulus of Rapture (CMOR) after :	**kg/cm^2**		
Drying at 110°C/24h (min)		100	125
Fired at 1300°C/3h (min)		190	220
Abrasion Loss (ASTM C704) :	**cc**		
Fired at 1300°C/3h (max)		3.0	2.5
THERMAL PROPERTIES			
Permanent Linear Change (PLC) after :	**%**		
Fired at 1300°C/3h		± 0.6	± 0.5
Thermal Conductivity at 1000^0 C (Hot Face Temperature) (max)	**W/m.K**	1.8	2.0

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