



INTRODUCTION

Consteel CMG series magnesia-based patching mix is specially used for cold and hot repairing of slagline layer and other local wearing positions of EAF furnace, RH furnace and ladles. This series is made of selected magnesia and regenerated magnesia based on optimal grain size distribution formulation by introducing preferred compound binder, compound sintering agent and a certain proportion of plasticizer as additive. Thus the bonding strength and adhesion rate of the patching mix are considerably improved. Besides, according to the various wearing mechanism of patched position of furnace, the formula can be appropriately adjusted by adding a certain amount of anti-slag agent to improve the slag resistance.



COMPOSITION&PROPERTY

Part number	Chemical Composition(wt%)				Max. enduring temp.(°C)	Construction Density @110(g/cm ³)	CCS(MPa)			MOR(MPa)			Linear Change (% @1300)	Applicable Steel Grade
	MgO	CaO	SiO ₂	Cr ₂ O ₃			110°C @ 24 h	1000°C @ 3 h	1300°C @ 3 h	110°C @ 24 h	1000°C @ 3 h	1300°C @ 3 h		
	CMG M68	≥68	≥10	≤6			-	1700	2.3	4.5	8.5	14.5		
CMG M78	≥78	≥5	≤5	≥4	1750	2.2	4.3	7.9	13.6	1	2.1	4.8	-0.7	C,LA,MA,HA
CMG M80	≥80	≥7	≤3	-	1750	2.4	4.1	7.2	12.7	1	1.9	4.2	-0.8	C,LA,MA,HA
CMG M85	≥85	≥4	≤7	-	1750	2.5	4	7.1	12.1	0.9	1.6	4	-1.1	C,LA,MA,HA

Note:
 The parameters and composition above in the sheet is only for customer's reference, please contact our engineer for specific with submission of your detailed steel-making process features and steel category. Particular production information will be issued by Consteel with composition and monolithics processing illustration for your project.
 Steel grade classifications abbreviation-
 C- unalloyed plain carbon steel categories including the low carbon, medium carbon and high carbon steel;
 LA- alloy steel with low alloy components < 5% as Si, Si-Mn, etc
 MA- alloy steel with medium alloy composition from ≥5% from < 10% as Cr-Mo, Cr-Mo-V and Ni;
 HA- alloy steel with high alloy ≥10% as Ni, Cr-Ni and Mn composition ;

HOW TO SELECT THE RIGHT ONE



The unshaped refractory mix is special art involves around experience and science, which means the more cases we have and the deeper analysis we make will guarantee the higher possibility we can provide you with satisfactory formulation and granularity to meet your steel mills requirement. In order to enable our engineer to configure with the state of art design to fuel your optimal steel-making, please fill out the questionnaire correspondingly. And this is so-called "tailored design" for our clients.

