



INTRODUCTION

The Consteel CMC series ladle permanent lining castables are designed according to specific features of various ladles and positions by processing with superior grain size distribution of selected high quality bauxite, spinel, and corundum material with various composite additives as foamer activator and water-reducing agent, etc which enable the castable features in various properties range from high refractoriness, vast BD scope, high strength, supreme thermal insulation performance, high temperature volume stability to anti-abrasion. Thus this series is pretty able to meet specific application requirement of our steel-making customers.



COMPOSITION&PROPERTY

Part number	Chemical Composition(wt%)			Features	Raw material	Refractoriness(ss)(°C)	Grain size(mm)	BD(g/cm ³)	MOR		CS		PLC	Applicable ladles category
	Al ₂ O ₃	MgO	CaO						1100°C×24h	1500°C×3h	1100°C×24h	1500°C×3h	1500°C×3h	
CMCA60	≥60	≥6	≤1.5	LCC	High alumina-spinel	≥1790	6~0	≥2.3	≥6	≥8	≥30	≥45	-0.2~+1.5	Medium-small ladles, whole-body
CMCA65	≥65	≥5	≤1.25	LCC	High alumina-spinel	≥1790	6~0	≥2.6	≥6	≥8	≥30	≥45	-0.2~+1.5	
CMCA70	≥70	≥5	≤1.25	LCC	High alumina-spinel	≥1790	6~0	≥2.7	≥7	≥9	≥30	≥50	-0.2~+1.5	
CMCA75	≥75	≥6	≤0.8	ULCC	High alumina-spinel	≥1790	6~0	≥2.7	≥7	≥9	≥30	≥70	-0.2~+1	Large-medium whole body & refining ladles wall/bottom
CMCA80	≥80	≥4	≤0.8	ULCC	Corundum-spinel	≥1790	6~0	≥2.8	≥6	≥10	≥30	≥70	-0.2~+1	
CMCA85	≥85	≥4	≤0.8	ULCC	Corundum-spinel	≥1790	6~0	≥2.9	≥6	≥10	≥30	≥75	-0.2~+1	
CMCA90	≥90	≥5	≤0.8	ULCC	Corundum-spinel	≥1790	6~0	≥3.0	≥6	≥10	≥30	≥80	-0.2~+1	

Note:
 The parameters in above sheet are for customers' reference only, please reach out engineer and Consteel will design and configure according to your ladles type and smelting features, and thus some product information sheet will be issued for you with chem-phy specific parameters.
 LCC-low cement castable(1.0 < Cao% < 2.5%)
 ULCC-ultra low cement castable(0.2 < Cao% < 1.0%)

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 high odds 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.

