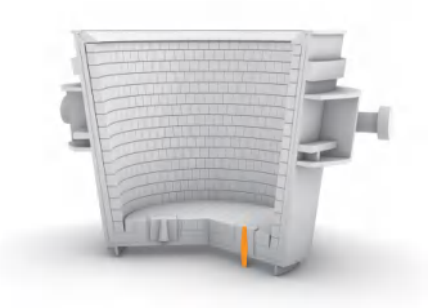
INTRODUCTION

Consteel's CFS series slide plates and CFN series upper and collector noz zles are made of optimal composition and state of the art process, which guarantee our customers with cutting-edge industrial service from the fu ndamental aspects to various demanding applications. Consteel's produ cts distinguish themselves by following features except basic performanc e in anti-corrossion, anti-erosion and anti-thermal shock.

- Extraordinary & endless products research capability ;
- Rigid products inspection procedures;
- Case-oriented products application analysis ability;



COMPOSITION&PROPERTY

Consteel SN	Chemical composition(Wt%)			Physical properties			Chemical category	Anchor Raw material	Process feature
	Al_2O_3	ZrO_2	C	B.D. g/cm^3	A.P.%	C.C.S Mpa			
CFS-DA80	⩾ 80	-	5	2.95	10	100	Al-C	Sintered corundum&synthetic mullite	Dead-burned
CFS-DA75	⩾ 75	-	5	2.9	10	80			
CFS-DAZ78	⩾ 78	⩾ 4	6	3.18	8	120	Al-C-Zr		
CFS-DAZ75	⩾ 75	⩾ 4	5	3.05	10	115			
CFS-DAZ70	⩾ 70	⩾ 5	7	3.05	10	120			
CFS-LA80	⩾ 80	-	2	3.1	8	120	Al-C	Sintered corundum&synthetic mullite	Light-burned
CFS-LA75	⩾ 75	-	3	2.95	10	100			
CFS-LA70	⩾ 70	-	3	2.85	12	80			
CFS-LAZ80	⩾ 80	⩾ 4	2	3.05	10	120	Al-C-Zr		
CFS-LAZ75	⩾ 75	⩾ 4	3	3	10	110			
CFS-LAZ70	⩾ 70	⩾ 4	4	2.95	12	90			
CFS-NA80	⩾ 80	-	2	3	8	80	Al-C	Sintered corundum&synthetic mullite	Non-burned
CFS-NA75	⩾ 75	-	2	2.95	8	80			
CFS-NA70	⩾ 70	-	2	2.9	10	60			
CFS-NAZ80	⩾ 80	⩾ 3	2	3	8	80	Al-C-Zr		
CFS-NAZ75	⩾ 75	⩾ 3	3	2.9	8	60			
CFS-NAZ70	⩾ 70	⩾ 3	3	2.85	10	50			

Note:
The above parameters are for customers' reference only, please reach our engineer with your ladle process metallurgical&flow control features including the sliding gate valve brand and model information or drawings to enable us to configure the specific products for you.

ANTI-WEARING PROOF

CONVENTIONAL PLATES WEARING APPEARANCE AFTER 10HEATS

CONVENTIONAL NOZZLES WEARING APPEARANCE AFTER 10HEATS

CONSTEEL'S PLATES WEARING APPEARANCE AFTER 10HEATS

CONSTEEL'S NOZZLES WEARING APPEARANCE AFTER 10HEATS

COMPOSITION&PROPERTY

Consteel SN	Chemical composition(Wt%)			Physical properties			Chemical category	Binder	Application
	Al_2O_3	MgO	C	B.D. g/cm³	A.P.%	C.C.S Mpa			
CFN-NC90	⩾ 90	-	-	3	20	45	Corundum	Resin	Ladle collector nozzle
CFN-NC85	⩾ 85	-	2	2.9	12	40	Corundum-graphite		
CFN-NC75	⩾ 75	-	2	2.8	12	38			
CFN-NC65	⩾ 65	-	3	2.7	14	32			
CFN-NUM75	⩾ 6	⩾ 75	4	2.8	10	42	Spinel-graphite		
CFN-NU80	⩾ 80	-	3	2.9	10	40	Corundum-graphite		Ladle upper nozzle
CFN-NU75	⩾ 75	-	3	2.75	14	38			
CFN-NU70	⩾ 70	-	3	2.7	14	38			

Note:
The above parameters are for customers' reference only, please reach our engineer with your ladle process metallurgical&flow control features including the sliding gate valve brand and model information or drawings to enable us to configure the specific products for you.

HOW TO SELECT THE RIGHT ONE

When it comes to the design & configurations of plates&nozzles,in additionto the fundamental chemical & physical properties corrosion resistant,erosion resistant and thermal shock resistant requirements, the delicate pre-work involves around the theoretical analysis combined with empirical accumulation is the key to select the right one for your crucial steel-making re-fining process.

Note:
- Please reach Consteel engineer to select the specific group which suit your particular smelting equipment & processing features.
- The specific chemical formula can be designed on the basis of the working severity assessment after the study of information obtained from customers.
- The size & body structure above are for reference only, Consteel preserve the right to update and modify the design without notifications.