



STEEL-MAKING REFRACTORY SOLUTION

Zhejiang Consteel Metallurgical Technology Co.,Ltd



Zhejiang Consteel Metallurgical Technology Co.,Ltd is located in Changxing County, Huzhou City, Zhejiang province in China, which is only 2 hours driving distant away from the Shanghai Pudong airport.

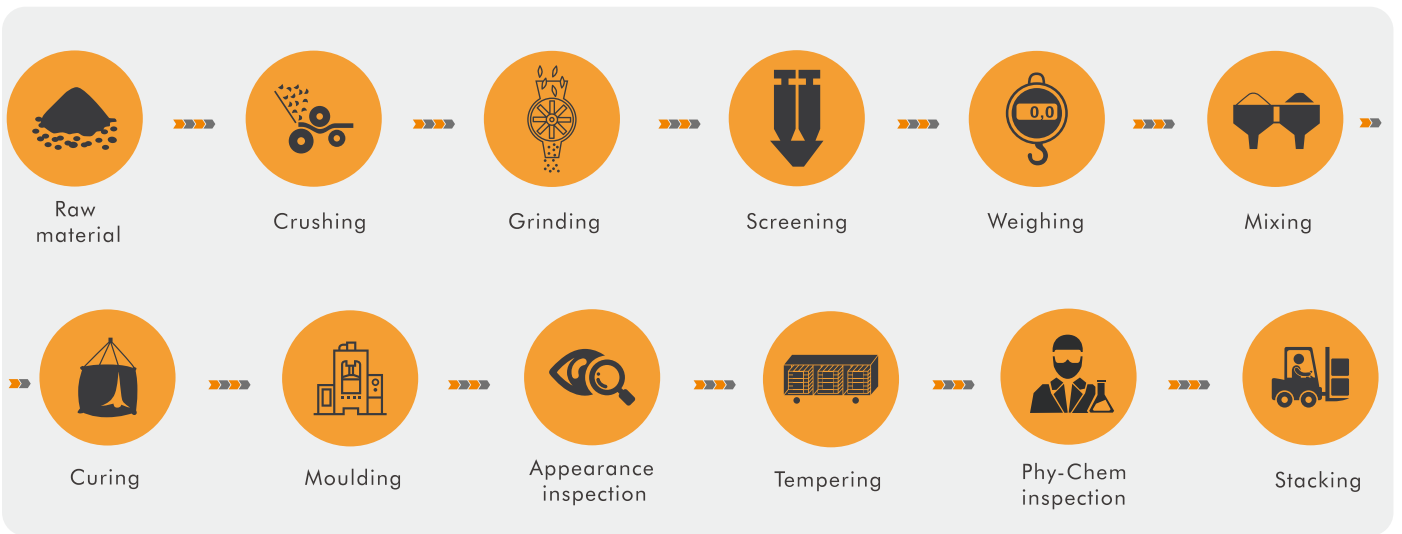
Consteel is one manufacturer consists of veterans with average 35 years experience who focus on the research&manufacture&application of various steel-making shaped&unshaped refractories and metallurgical agents. Consteel is dedicated to act as one-stop solution provider whose services spectrum range from project survey, proposal design, installation & supervision to metallurgical processes optimization and issue diagnosis, etc for the steelmakers' smelting equipments varies from EAF, BOF, LF ladles, VD, VOD to tundishes, etc

Nowadays ISO9001-2015 certified Consteel is able to supply up to 60,000MT shaped refractory products and 40,000MT unshaped refractory products for domestic and oversea market, which enable us to provide our customers with reliable&stable products. Consteel uphold the faith "success comes from details and expertise brings promising future", you are warmly welcome to visit our factory for cooperation negotiation.

**WE ARE
DEDICATED TO BECOME
DISTINGUISHED ONE-STOP
REFRACTORY SUPPLIER FOR STEEL-MAKERS**



BRICKS MANUFACTURE FLOW CHART



TYPICAL TESTING APPARATUS

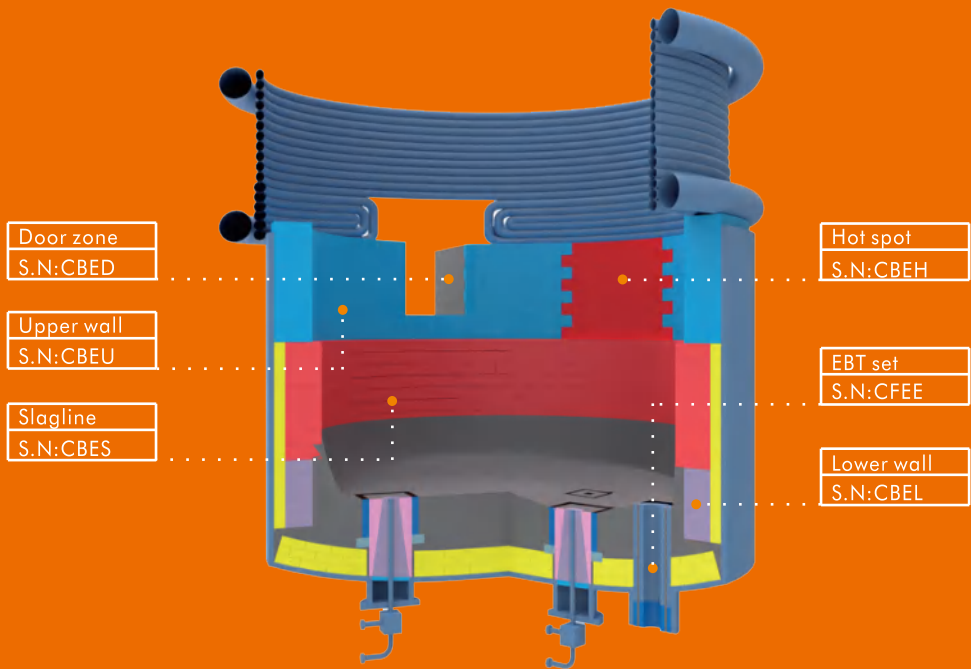


Note:

- All the photos above are only for customer's reference;
- The specific testing programs should be determined by the production features and the requirement of customer except the compulsory ones;
- Some other testing & inspection apparatus are absent and will be conducted by third-party cooperative labs of Consteel;
- The manufacture flow chart above is typically applicable for bricks rather than all the refractories as monolithics and some refractory fittings;



Protect the EAF vessel with elaborate formula and trustworthy production



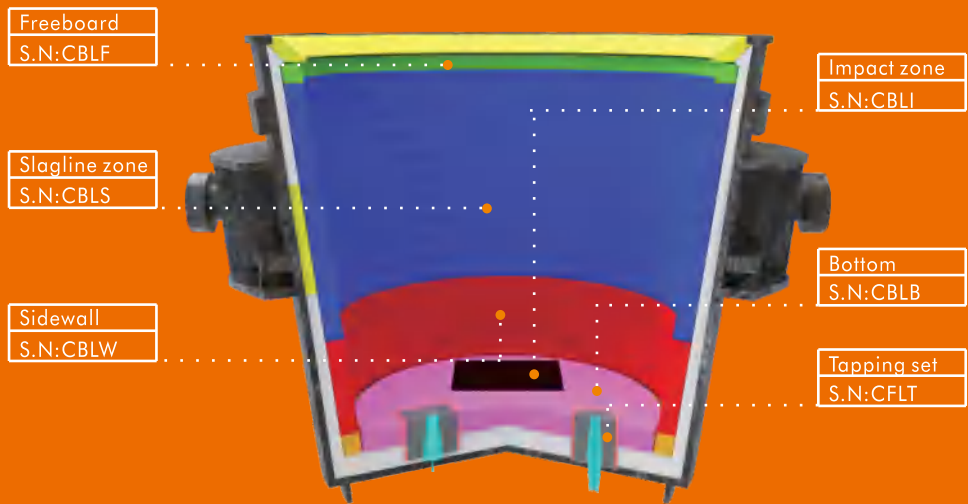
COMPOSITION&PROPERTIES

Consteel SN	Chemical composition analysis(wt%)				Carbon content C %	Physical properties			Anti-oxidant Y/N	Grade	Applicable zone
	MgO	CaO	Fe ₂ O ₃	SiO ₂		B.D.	A.P.	C.C.S			
						g/cm ³	%	Mpa			
CBEL-N5-5E	96.14	1.74	0.81	0.86	5	3.06	5	43	N	Economical	Lower wall
CBEL-N5-5S	97.18	1.37	0.63	0.67	5	3.03	5	45	N	Standard	Lower wall
CBEL-N8-5P	97.18	1.39	0.61	0.68	8	3.01	5	42	N	Premium	Lower wall
CBEU-N8-5E	97.18	1.39	0.61	0.68	8	3.01	5	42	N	Economical	Upper wall
CBEU-N8-4S	97.19	1.35	0.64	0.66	8	2.99	4	40	N	Standard	Upper wall
CBEU-Y12-3P	97.19	1.33	0.67	0.65	12	3.03	3	45	Y	Premium	Upper wall
CBED-N10-3E	97.19	1.33	0.67	0.65	10	3.03	3	45	N	Economical	Door area
CBED-N12-4S	97.19	1.35	0.64	0.66	12	2.99	4	40	N	Standard	Door area
CBED-N12-4P	97.62	1.19	0.48	0.58	12	3	4	42	N	Premium	Door area
CBES-Y12-3E	97.19	1.33	0.67	0.65	12	3.03	3	45	Y	Economical	Slag line
CBES-Y14-3S	98.07	0.93	0.41	0.44	14	2.99	3	40	Y	Standard	Slag line
CBES-Y16-3P	98.09	0.92	0.4	0.43	16	2.97	3	40	Y	Premium	Slag line
CBEH-Y14-3E	98.07	0.93	0.41	0.44	14	2.99	3	40	Y	Economical	Hot spot
CBEH-Y16-3S	98.09	0.92	0.4	0.43	16	2.97	3	40	Y	Standard	Hot spot
CBEH-Y16-3P	98.17	0.86	0.38	0.41	16	2.97	3	40	Y	Premium	Hot spot

Note:
The above parameters are for customers' reference only and the particular bricks configuration will be conducted by our detail-oriented engineers on the basis of the various factors as the EAF type, tap-to-tap time, molten steel composition and customer's requirements, etc



**Protect the vessels
of LF ladles
/RH/VD/VOD/AOD
with
elaborate
formula
and
trustworthy
production**



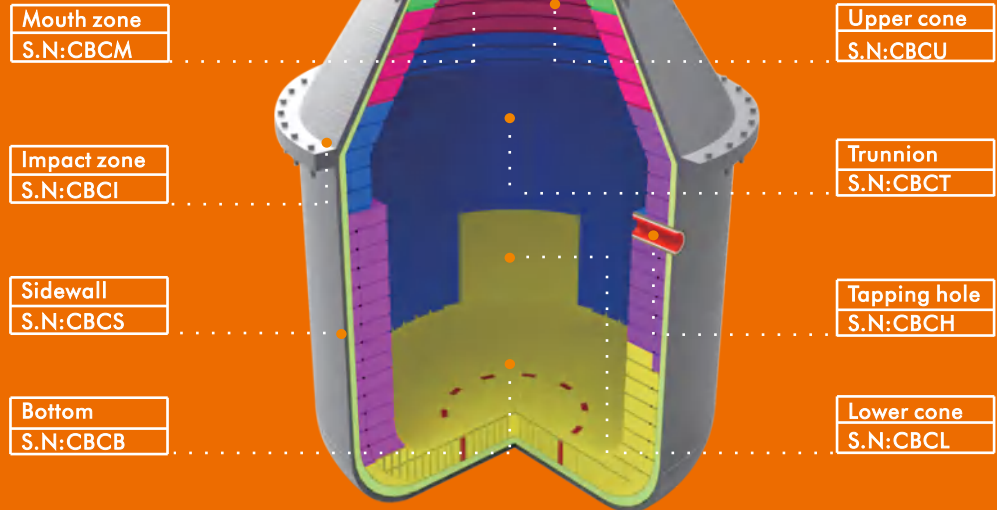
COMPOSITION&PROPERTIES

Consteel SN	Chemical composition analysis(wt%)				Carbon content C %	Physical properties			Anti-oxidant Y/N	Grade	Applicable zone
	MgO	CaO	Fe ₂ O ₃	SiO ₂		B.D. g/cm ³	A.P. %	C.C.S Mpa			
CBLF-N5-5E	96.11	1.75	0.83	0.87	5	3.09	5	40	N	Economical	Freeboard
CBLF-N5-5S	96.50	1.65	0.73	0.82	5	3.05	5	35	N	Standard	Freeboard
CBLF-N8-5P	97.08	1.49	0.55	0.73	8	3.03	5	35	N	Premium	Freeboard
CBLW-N5-5E	97.10	1.37	0.71	0.67	5	3.09	5	45	N	Economical	Sidewall
CBLW-N8-5S	97.11	1.37	0.71	0.67	8	3.07	5	45	N	Standard	Sidewall
CBLW-Y10-4S	97.57	1.22	0.49	0.59	10	3.02	4	40	Y	Premium	Sidewall
CBLB-N5-5E	96.11	1.75	0.83	0.87	5	3.09	5	40	N	Economical	Bottom
CBLB-N5-5S	97.10	1.41	0.66	0.69	5	3.05	5	43	N	Standard	Bottom
CBLB-Y8-5S	97.11	1.43	0.63	0.71	8	3.03	5	41	Y	Premium	Bottom
CBL5-N12-4E	97.10	1.39	0.67	0.68	12	3.01	4	38	N	Economical	Slagline
CBL5-Y14-3S	98.05	0.95	0.43	0.44	14	3.01	3	40	Y	Standard	Slagline
CBL5-Y16-3P	98.10	0.90	0.41	0.42	16	2.99	3	40	Y	Premium	Slagline
CBLI-N12-3E	97.10	1.39	0.67	0.68	12	3.01	4	38	N	Economical	Impact zone
CBLI-Y16-3S	98.05	0.95	0.43	0.44	16	2.99	3	39	Y	Standard	Impact zone
CBLI-Y16-3P	98.10	0.90	0.41	0.42	16	2.99	3	40	Y	Premium	Impact zone

Note:
The above parameters are for customers' reference only and the particular bricks configuration will be conducted by our detail-oriented engineers on the basis of the various factors as the ladle type, duration time, refining conditions and customer's requirements, etc



Protect the BOF vessel with elaborate formula and trustworthy production



COMPOSITION&PROPERTIES

Consteel S.N	Chemical composition analysis(wt%)				Carbon Content(wt%)	Physical properties			Anti-oxidant Y/N	Grade	Applicable zone
	MgO	CaO	Fe ₂ O ₃	SiO ₂		B.D g/cm ³	A.P %	C.C.S Mpa			
CBCB-N8-5E	96.51	1.63	0.71	0.8	8	3.03	5	42	N	Economical	Bottom
CBCB-N10-4S	97.22	1.34	0.61	0.66	10	3	4	40	N	Standard	Bottom
CBCB-Y12-3P	97.23	1.3	0.65	0.64	12	2.99	3	42	Y	Premium	Bottom
CBCL-N8-4E	97.22	1.36	0.59	0.67	8	3.01	4	43	N	Economical	Lower cone
CBCL-Y12-4S	97.22	1.34	0.61	0.66	12	3	4	40	Y	Standard	Lower cone
CBCL-Y14-3P	97.22	1.34	0.61	0.66	14	2.97	3	40	Y	Premium	Lower cone
CBCM-N8-4E	96.21	1.72	0.79	0.85	8	3.03	4	43	N	Economical	Mouth
CBCM-N10-4S	97.23	1.3	0.65	0.64	10	3.03	4	45	N	Standard	Mouth
CBCM-Y12-4P	97.94	1.01	0.42	0.46	12	3	4	40	Y	Premium	Mouth
CBCS-N10-4E	97.94	1.01	0.42	0.46	10	3	4	40	N	Economical	Sidewall
CBCS-Y14-3S	98.12	0.91	0.4	0.4	14	2.99	3	40	Y	Standard	Sidewall
CBCS-Y14-3P	98.15	0.9	0.39	0.39	14	2.99	3	40	Y	Premium	Sidewall
CBCU-N8-4E	97.22	1.36	0.59	0.67	8	3.01	4	43	N	Economical	Upper cone
CBCU-N10-4S	98.12	0.91	0.4	0.4	10	3.01	4	45	N	Standard	Upper cone
CBCU-Y14-3P	97.22	1.34	0.61	0.66	14	2.97	3	40	Y	Premium	Upper cone
CBCI-Y12-4E	98.12	0.91	0.4	0.4	12	3	4	42	Y	Economical	Impact zone
CBCI-Y14-3S	98.12	0.91	0.4	0.4	14	2.99	3	40	Y	Standard	Impact zone
CBCI-Y14-3P	98.15	0.9	0.39	0.39	14	2.99	3	40	Y	Premium	Impact zone
CBCH-Y12-4E	97.23	1.3	0.65	0.64	12	3.03	4	45	Y	Economical	Tapping hole
CBCH-Y12-4S	98.12	0.91	0.4	0.4	12	3	4	42	Y	Standard	Tapping hole
CBCH-Y14-3P	98.15	0.9	0.39	0.39	14	2.99	3	40	Y	Premium	Tapping hole
CBCT-Y14-3E	98.12	0.91	0.4	0.4	14	2.99	3	40	Y	Economical	Trunnion
CBCT-Y14-3S	98.15	0.9	0.39	0.39	14	2.99	3	40	Y	Standard	Trunnion
CBCT-Y16-3P	98.21	0.87	0.4	0.38	16	2.97	3	40	Y	Premium	Trunnion

Note:
The above parameters are for customers' reference only and the particular bricks configuration will be conducted by our detail-oriented engineers on the basis of the various factors as the BOF size, tap-to-tap time, molten steel composition and the customers' requirements, etc.



Based on but beyond refractories manufacturer & contractor is CONSTEEL's self-positioning in steelmaking metallurgy industry, therefore, CONSTEEL is committed to become-

- ▶ Steelmaking process issue diagnosis & improvement service consultant;
- ▶ Refractory installation monitor & independent guidance provider;
- ▶ Steelmaking smelting process contractor which help steelmakers to cut down pertinent cost while ensuring the productivity.

