



## Monolithic Refractories for Blast Furnace

### Data Sheet

Item			Al <sub>2</sub> O <sub>3</sub> - SiO <sub>2</sub> -C castable for blast furnace tapping channel				Alumina-spinel castable for ladle		High-alumina plastic castable	
			CTG-11	CTG-12	CTG-13	CTG-14	CAM-70	CAM-85	CJS-1500	CJS-1600
Al <sub>2</sub> O <sub>3</sub>	%	≥	60	50	45	45	70	85	55	65
SiO <sub>2</sub> +C	%	≥	12	30	7	12	---	---	---	---
CaO	%	≤	1.5	1.5	1.5	1.5	---	---	---	---
MgO	%	≥	---	---	---	---	12	10		
SiO <sub>2</sub>	%	≤	---	---	---	---	---	---	40	30
Bulk density g/cm <sup>3</sup> ) ≥	110℃×24h		2.7	2.6	2.4	2.4	2.8	3.0	2.3	2.4
	1000℃×3h		---	---	---	---	2.7	2.9	---	---
	1450℃×3h		2.6	2.5	2.35	2.35	---	---	---	---
	1500℃×3h		---	---	---	---	2.9	3.1	---	---
C.C.S. (MPa) ≥	110℃×24h		30	20	30	20	40	40	---	---
	1450℃×3h		40	30	40	30	60	60	---	---
M.O.R. (MPa)≥	110℃×24h		5	4	5	4	5	6	5-7	5-8
	1000℃×3h		---	---	---	---	8	8	---	---
	1450℃×3h		5	5	6	5	---	---	---	---
	1500℃×3h		---	---	---	---	10	12	10	12
Linear change after heating	110℃×24h						0~ -0.1	0~ -0.1	-0.2~0	-0.2~0
	1000℃×3h						0~ +0.2	0~ +0.2		
	1450℃×3h		±0.5	±0.5	±0.6	±0.6				
	1500℃×3h						0~+0.8	0~+0.8	0~+0.5	0~+0.5
Max. service temperature (℃)							1760	1800	1500	1600
Using area			Main ditch of molten iron line	Main ditch of slag line	Iron trough	Slag trough	Linings of ladle (Vibration casting method construction)		Linings of heating furnace of steel rolling, incinerator (Ramming construction method)	

Note: Technical Data are typical results from test pieces. This information, subject to change, is offered solely for your consideration. Users of our products should make their own tests to determine the suitability of each product for their particular purposes.