



Monolithic Refractories for Glass Industry

Data Sheet

Item		Ziron castable	AZS castable	Zircon-mullite castable	Zircon-mullite ramming	Silica castable	
		CZJ63	CAZSJ33	CZMJ25	CZMD18	CGJ85	CGJ95
Al ₂ O ₃	% ≥	≤1	46	55	65	---	---
SiO ₂	% ≤	32	17	15	10	85	95
ZrO ₂ (Cao)	% ≥	63	33	25	18	12	4
Bulk density (g/cm ³) ≥		3.5	3	3	3	1.7	1.8
C.C.S. (MPa) ≥	110℃×24h	---	30	15	---	---	---
	300℃×24h	80	---	---	65	10	15
	1000℃×24h	90	80	70	65	20	25
Reheating linear change (%) ≤	1400℃×3h	-0.5	-0.4	-1	-0.3	-0.5	-0.5
Max. service temperature (℃) ≥		1650	1600	1600	1650	1400	1650

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.



Item		Silica hot repairing mix	Corundum castable	Mullite castable	Fireclay castable	Light weight fireclay castable
		CGHB92	CGYJ85	CML70	CNL40	CQNL40
Al ₂ O ₃	% ≥	---	85	72	40	40
SiO ₂	% ≤	92	---	---	---	---
ZrO ₂ (Cao)	% ≥	---	---	3.5	3	15
Bulk density (g/cm ³) ≥		---	2.9	2.4	2.2	≤1.2
C.C.S. (MPa) ≥	110℃×24h	---	35	60	---	---
	300℃×24h	---	---	---	55	6
	1000℃×24h	---	---	50	75	4
	1400℃×2h	35	---	---	---	---
	1500℃×3h	---	50	---	---	---
Reheating linear change (%) ≤	1200℃×3h	---	---	---	---	±0.6
	1400℃×3h	---	---	---	±0.5	---
	1500℃×3h	---	±0.5	±0.5	---	---
Max. service temperature (℃) ≥		1650	1750	1600	1400	1200

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.



Item		Mullite Mortar	Fireclay Mortar		Magnesia Mortar			Zirconia Mortar	Zircon-mullite Mortar
		CMN80	CNN40	CNN45	CMF95	CMF97	CMF95	CZN60	CZN31
Al ₂ O ₃	% ≥	80	40	45	---			≤1	49
SiO ₂	% ≤	---	---	---	---			36	16
MgO	% ≤	---	---	---	95	97	98	---	---
ZrO ₂	% ≥	---	---	---	---			60	31
Cold adhesive strength (MPa) ≥	110℃×24h	2.5	1	1	---			3	3
	1400℃×3h	5	5	6	---			6	6
Adhesive time (S)		60-120	60-180	60-180	60-180			60-120	60-120
Grain Composition (%)	-1mm	100							
	+0.5mm ≤	2							
	-0.074mm ≥	50							
Max. service temperature (℃) ≥		1750	1500	1600	1750			1750	1650

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.