Calcium Aluminate Cement

High Heat Resistance

Environmentally Friendly

Rapid Hardening

Easy Construction

Application:

In high temperature industries, refractory cement for sale is an important and popular product. Because it has wide applications in manufacturing monolithic refractory products and directly using in kilns.

CA-50 series Technical Data:

Item			A600	A700	A900
SiO_2, %		≤	7.8	7.5	5.5
Al_2O_3, %		≥	50.0	51.0	53.5
Fe_2O_3, %		≤	2.5	2.5	2.5
R_2O, %		≤	0.4	0.4	0.4
S, %		≤	0.1	0.1	0.1
Cl, %		≤	0.1	0.1	0.1
325M Residue on Sieve, %		≤	15	12	8
S, m^2/kg		≥	300	320	350
Initial Setting Time, min		≥	45	60	90
Final Setting Time, h		≤	6	6	6
Flexural Strength, Mpa	1d	≥	6.0	6.5	8.0
	3d	≥	7.0	7.5	10.0
Compressive Strength, Mpa	1d	≥	45	55	72
	3d	≥	55	65	82

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CA-70 Technical Data:

Item		CA70
Properties Determined according to GB201-2000		
SiO_2, %		≤0.5
Al_2O_3, %		68.5-70.5
Fe_2O_3, %		≤0.2
CaO, %		28.5-30.5
MgO, %		≤0.4
R_2O, %		≤0.4
Fineness	D50, μm	11-14
	-45μm, %	≤8.0
Setting Time, min	Initial Setting, IS	120-180
	Final Setting, FS	150-240
Flexural Strength, Mpa	1d	7.5-10.0
	3d	10.0-12.0
Compressive Strength, Mpa	1d	40-50
	3d	45-55
Cement Properties in Testing Castables		
Setting Time, min	20℃	60-90
	35℃	30-50
Vibration Flow, mm（20℃）	Initial Flow	265-275
	10min	255-265
	30min	235-245
	60min	230-240
Flexual Strength, Mpa	20℃×24h	4.5-5.5
	110℃×24h	10.0-11.5
	1100℃×4h	12.0-14.0
Compressive Strength, Mpa	20℃×24h	35-45
	110℃×24h	85-95
	1100℃×4h	100-120
Linear Change, %	1100℃×4h	≤-0.25

CA-80 Technical Data:

Item		CA80
Properties Determined according to GB201-2000		
SiO_2, %		≤0.5
Al_2O_3, %		78.0-81.0
Fe_2O_3, %		≤0.2
CaO, %		17.5-20.5
MgO, %		≤0.4
R_2O, %		≤0.4
Fineness	D50, μm	5-8
	-45μm, %	≤5.0
Setting Time, min	Initial Setting, IS	30-90
	Final Setting, FS	90-180
Flexural Strength, Mpa	1d	5.0-7.5
	3d	6.0-8.5
Compressive Strength, Mpa	1d	30-40
	3d	40-50
Cement Properties in Testing Castables		
Setting Time, min	20℃	90-120
	35℃	40-60
Vibration Flow, mm（20℃）	Initial Flow	255-265
	10min	250-260
	30min	240-250
	60min	235-245
Flexual Strength, Mpa	20℃×24h	3.0-4.0
	110℃×24h	8.0-9.0
	1100℃×4h	11.0-13.0
Compressive Strength, Mpa	20℃×24h	25-35
	110℃×24h	60-70
	1100℃×4h	100-120
Linear Change, %	1100℃×4h	≤-0.15