AGC AGC CERAMICS CO., LTD.

Asahi caster for gunning

Nov, 2011

Product		GNP-16G	CA-13SG	GNP-SSG
Max service temperature (℃)		1600	1450	1450
Installation requirement (t/m^3)		2.15	1.90	2.00
Water additions (wt%)		Nozzle mixing	Nozzle mixing	Nozzle mixing
Chemical composition (%)	SiO_2	42	45	43
	Al_2O_3	50	45	45
Bulk density	110℃×24hrs.	2.20	2.00	2.10
	( )Temp.x 3hrs.	2.10 (1400)	1.95 (1300)	2.00 (1200)
Cold crushing strength (MPa) Bending strength (MPa)	110℃×24hrs.	50 (10)	40 (9)	60 (10)
	900℃× 3hrs.	40 (5)	18 (3)	35 (6)
	1200℃× 3hrs.	30 (5)	16 (3)	30 (6)
	1400℃× 3hrs.	60 (15)		
Permanent linear change (%)	( )Temp.x 3hrs.	-0.5 (1400)	-0.6 (1300)	-0.5 (1200)
Thermal expansion (%)	at 1000℃	0.3	0.2	0.2
Thermal conductivity (W/mK)	at 500℃	1.3	0.88	1.2
	at 1000℃	1.4	1.1	1.3
Standard package quantity(kg)		25	25	25
Features		High heat resistance	High strength	High strength
Typical applications		Types of kilns	Types of kilns	Types of kilns

※The data shown here is a representative value, and no hallmark value.
※The data shown here is from the sample which is prepared by casting.
※When the troweling method is used, the water additions(wt%) of products is shown as follows:
GNP-16G 10.5～13.5 CA-13SG 15.5～17.5 GNP-SSG 11.5～14.5