

**Asahi acid-and-water-resistant castable**

April, 2011

Product		WPC		WPC S Series		
		WPC-130	WPC-130G	WPC-130S	WPC-130SP	WPC-150S
Max service temperature(°C)		1450	1450	1400	1400	1500
Installation requirement(t/m <sup>3</sup> )		2.05	2.05	2.15	2.05	2.25
Water additions(wt%)		13~16	Nozzle mixing	9~11	11~13	7~9
Chemical composition (%)	SiO <sub>2</sub>	38	40	39	39	26
	Al <sub>2</sub> O <sub>3</sub>	48	46	47	47	64
Bulk density	110°C × 24hrs.後	2.15	2.15	2.20	2.15	2.30
	( )Temp x 3hrs.	2.09 (1200)	2.10 (1000)	2.16 (1300)	2.10 (1000)	2.25 (1300)
Cold crushing strength (MPa)	110°C × 24hrs.後	60 (10)	45 (6)	90 (14)	65 (9)	70 (10)
	900°C × 3hrs.後	40 (6)	35 (5)	65 (10)	45 (6)	
Bending strength (MPa)	1200°C × 3hrs.後	40 (6)	28 (4)	70 (11)	50 (7)	55 (8)
	1500°C × 3hrs.後					80 (12)
Permanent linear change (%)	( )Temp.x 3hrs.	-0.3 (1000)	-0.3 (1000)	-0.2 (1000)	-0.3 (1000)	-0.5 (1500)
Thermal expansion (%)	at ( )Temp.	0.2 (1000)	0.2 (1000)	0.2 (1000)	0.2 (1000)	0.3 (1000)
Thermal conductivity (W/mK)	at 500°C	1.2	1.2	1.4	1.4	1.4
	at 1000°C	1.3	1.3	1.5	1.5	1.5
Standard package quantity(kg)		25	25	25	25	25
Construction technique		Casting Pumping	Gunning	Casting	Pumping	Casting
Features		Acid-resistant Water-resistant	Acid-resistant Water-resistant	Acid-resistant、 Water-resistant High strength	Acid-resistant、 Water-resistant High strength	Acid-resistant、 Water-resistant High strength
Typical applications		Incinerator Waste gas washing device	Incinerator Waste gas washing device	Incinerator Waste gas washing device	Incinerator Waste gas washing device	Incinerator Waste gas washing device

※The data shown here is a representative value, and no hallmark value.

※When the troweling method is used, the water additions(wt%) of products is shown as follows:

WPC-130G 11.5~14.5