

Asahi Plast (plastic refractories)

September, 2010

Product		PL-37	PL-36	PL-34	PL-37HP	PL-36HP	PL-35HP	PL-34HP
Max service temperature (°C)		1750	1700	1600	1750	1700	1600	1550
Installation requirement (t/m ³)		2.75	2.50	2.25	2.75	2.50	2.30	2.25
Chemical composition (%)	SiO ₂	20	33	49	15	30	49	58
	Al ₂ O ₃	75	60	44	73	58	41	36
Bulk density	110°C × 24hrs.	2.58	2.38	2.15	2.60	2.38	2.20	2.10
	1500°C × 3hrs.	2.52	2.22	2.12	2.45	2.30	2.10	2.00
Cold crushing strength (MPa)	110°C × 24hrs.	4.7 (0.9)	4.2 (0.7)	3.8 (0.8)	13 (3)	12 (3)	12 (3)	9 (2)
	800°C × 3hrs.	10 (1.3)	11 (1.1)	12 (1.5)	23 (3)	20 (3)	20 (3)	18 (3)
Bending strength (MPa)	1100°C × 3hrs.	35 (3.4)	28 (2.8)	26 (3.8)	28 (4)	26 (4)	25 (4)	23 (3)
	1500°C × 3hrs.	42 (5.2)	20 (5.0)	20 (6.0)	21 (5.0)	20 (5.0)	18 (5.0)	16 (5.0)
Permanent linear change (%)	110°C × 24hrs.	-1.2	-1.3	-0.8	-1.1	-1.3	-1.1	-1.2
	800°C × 3hrs.	-1.2	-1.3	-0.8	-1.1	-1.3	-1.1	-1.2
	1100°C × 3hrs.	-1.2	-1.4	-0.9	-1.2	-1.4	-1.2	-1.3
	1500°C × 3hrs.	-0.8	-0.7	-1.0	0.7	0.7	1.0	1.0
Thermal conductivity (W/mK)	at 500°C	1.9	1.4	1.2	1.9	1.4	1.4	1.2
	at 1000°C	1.8	1.5	1.4	1.8	1.5	1.5	1.4
Standard package quantity(kg)		25	25	25	25	25	25	25
Typical applications		Repairing	Repairing	Repairing	Heating furnace Burner tiles	Heating furnace Burner tiles Alumium melting furnace,Alumium holding furnace Incinerator	Heating furnace Burner tiles Alumium melting furnace,Alumium holding furnace Incinerator	Heating furnace Burner tiles Alumium melting furnace,Alumium holding furnace Incinerator

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