



THE QUALITY OF PLASTIC REFRACTORIES

Plastic refractory manufactured by using special binder of Phosphate Alimina. Specific property and advantage are as following. Therefore an excellent plastic refractory appropriate to use in furnace linings in needs to against very corrosive places such as various cement rotary kilns, air-electricity cogeneration furnaces, incinerators and reheating furnaces. It is general physic and chemical properties are as followings:

1.Heat setting refractory applicable to use in various kilns between 350~1700°C.

2.Suitable plasticity , completeness utility molding tool, ease installation work.

3.High mechanical strength and good resistant corrosion over different temperature ranges.

4.Excellency in Thermal Shock Resistance.

5.Good resistance against chemical corrosion.

6.Coating adhesion flexible to cold and got work.

7.Immediate to use for operation without preheating after installation.

Typical Properties

Brand		PAG-170	BRM-100CR
Properties			
Max. Service Temperature(°C)		1700	1800
Amount For Installation (kg/m ³)		2650	3050
Setting Type		Heat Setting (Chemical Bonded)	Heat Setting (Chemical Bonded)
Bulk Density		2.63	3.03
Modulus of Rupture (Mpa)	350°C *3hrs	8.0	5.2
	1000°C *3hrs	7.0	8.8
	1300°C *3hrs	12.0	—
	1500°C *3hrs	10.0	21.6
Permanent Linear Change (%)	350°C *3hrs	-1.3	0
	1000°C *3hrs	-1.3	0
	1300°C *3hrs	-0.9	—
	1500°C *3hrs	-0.7	-0.2
Chemical Composition (%)	Al ₂ O ₃	80	87.8
	SiO ₂	10	3.6
	P ₂ O ₃	5.0	1.0
	Cr ₂ O ₃	—	5.0



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Typical Properties

Brand		Properties	
		P-80HS-P	P-40HS (P-40HS-P)
Max. Service Temperature(°C)		1500	1500
Amount For Installation (kg/m ³)		2700	2500
Water Required For Mixing (%)		50-55	50-55
Setting Type		Air Setting (Chemical Bonded)	Air Setting (Chemical Bonded)
Modulus of Rupture (Mpa)	110°C *3hrs	4.0	4.0
	500°C *3hrs	4.0	5.0
	1000°C *3hrs	10.0	6.0
	1200°C *3hrs	12.0	8.8
Permanent Linear Change (%)	110°C *3hrs	-0.3	-0.3
	500°C *3hrs	-0.4	-0.4
	1000°C *3hrs	-0.5	-0.4
	1200°C *3hrs	-0.5	-0.2
Compressive Streng (Mpa)	110°C *3hrs	35	30
	500°C *3hrs	35	35
	1000°C *3hrs	36	30
	1200°C *3hrs	42	40
Thermal Conductivit (W/m.k)	110°C *3hrs	5.80	3.10
	500°C *3hrs	5.81	2.95
	750°C *3hrs	5.81	—
	1000°C *3hrs	5.72	2.80
Bulk Density(g/cm ³)	500°C *3hrs	2.4	2.3
	1000°C *3hrs	2.4	2.28
	1200°C *3hrs	2.35	2.25
Apparent Porosity (%)	500°C *3hrs	25.0	25.0
	1000°C *3hrs	20.0	20.0
	1200°C *3hrs	21.0	19.6
Chemical Composition (%)	Al ₂ O ₃	8	30
	SiO ₂	—	25
	SiC	80	40
Main Application		Incinerator	Incinerator