

Plastic Refractories

PRODUCT		HIGH ALUMINA PLASTIC REFRACTORIES					
		83-RAM®	85-RAM®	85-RAM® HS	90-RAM®	90-RAM® HS	BLU-RAM® HS
Max. Service Temp. (°C)		1750 (1316~1649)	1750 (427~1649)	1750 (427~1649)	1800 (427~1704)	1800 (427~1704)	1800 (427~1704)
Bond Type		Heat	Chemical	Chemical	Chemical	Chemical	Chemical
Dry Material Required. For Estimating (Ton/m³)		2.69	2.88	2.96	2.92	2.96	2.74
Modulus of Rupture (kg/cm²)	110°C	25	58	88	63	76	79
	1399°C	91	129	158	105	188	154
Permanent Linear Change (%)	538°C	-1.2	-0.6	-0.7	-0.6	-0.6	-0.2
	1399°C	-0.6	-0.5	-0.7	-0.3	-0.6	-0.2
Thermal Conductivity (Kcal/mh°C)	538°C	1.88	1.88	1.75	2.21	1.93	1.2
	816°C	1.48	1.48	1.56	1.81	1.85	1.14
	1093°C	1.25	1.25	1.48	1.64	1.91	1.12
Chemical Composition (%, Calcined Basis)	Al ₂ O ₃	81.1	83.6	85.6	90.8	93.0	73.8
	SiO ₂	14.6	10.3	6.6	7.3	2.7	20.7
	Fe ₂ O ₃	1.3	1.0	0.9	0.4	0.5	1.0