

## Types, sizes, typical characteristics, and examples of uses

Type	Size(mm)		Max. grain size (mm)	Bulk density (g/cm <sup>3</sup> )	Specific resistance (μ m)	Young's modulus (Gpa)	Bending strength (Mpa)	Coefficient of thermal expansion (MK-1)	Thermal conductivity (W/mK)	Ash content (%)	Use	
Rectangular Type	PSG-12	500x450	2000	2.3	1.71	7.5	8.8	24.5	4.0	151	0.2	Heating element, boat, tray, sliding plate, electrolytic electrode, mold, and jig
		670x450	3000									
	PSG-332	600x500	2600	2.5	1.73	5.0	13.7	19.6	0.6	232	0.1	
		670x450	2500									
Cylindrical Type	MSG-12	200· 225· 250	1500	1.0	1.76	7.0	10.3	31.4	3.8	186	0.1	Heating element, crucible, roll, die, tube, electrolytic electrode, bearing, stationary board, and furnace material
		300· 350	1800	1.0	1.75	7.0	9.8	29.4	3.8	186	0.1	
		400· 450	1800	2.3	1.74	7.0	9.3	25.5	3.8	186	0.1	
		500· 600	1800	2.3	1.72	7.0	8.8	23.5	3.6	186	0.1	

- The values given as the coefficient of thermal expansion were measured in a temperature range between 200 and 400 .
  - Other types of carbon and graphite materials are also available.
- The most suitable one will be recommended considering your operating conditions.