

CARBON & GRAPHITE SPECIALTIES

● Extruded material

Product grade	Size (mm)		Maximum grain size (mm)	Bulk density (g/cm ³)	Electrical resistivity (μΩm)	Bending strength (MPa)	Hardness (HS)	Thermal conductivity (W/mk)	Coefficient of thermal expansion (10 ⁻⁶ /°C)	Ash content (%)	Usage examples	
	Diameter or Thickness x Width	Length										
Rectangular	PSG-11	500x450	3,300	2.3	1.64	9.0	19	40	150	4.4	0.15	
		670x450	1,800-3,000									
	PSG-12	500x450	2,000	2.3	1.74	7.5	27	43	170	4.4	0.15	
		670x450	3,000									
	PSG-13	670x450	3,000	2.3	1.80	7.0	29	46	190	4.4	0.15	
	PSG-322	650x500	2,440	2.5	1.72	5.3	18	26	210	1.0	0.03	
		670x450	3,170									
	PSG-332	650x500	2,440	2.5	1.75	4.7	21	26	240	1.0	0.03	
670x450		3,170										
PSG-333	650x500	2,440	6.0	1.74	4.6	20	26	240	1.0	0.03		
	670x450	3,170										
PSG-324	670x450	2,650	12.0	1.72	5.3	14	26	210	1.0	0.05		
Block Brick	PSK-CB	-	-	12.0	1.60	45	14	50	10	5.5	1.0	Inside surface of pickling tanks, inside various industrial furnaces such as electric furnaces
	PSK-GB	-	-	12.0	1.63	12	12	32	130	4.5	0.3	
Circular	MSG	φ20·φ30·φ40	1,000	2.3	1.74	7.5	27	43	170	4.4	0.15	
		φ50·φ60·φ70	1,500									
		φ80·φ90·φ100										
		φ200·φ225·φ250										
		φ300·φ350·φ400										
	MSG-12	φ450	1,800	2.3	1.77	7.5	28	45	180	4.4	0.15	
		φ500·φ600	1,800	2.3	1.76	7.5	27	41	180	4.4	0.15	
	GS-G	φ175·φ200·φ250	1,500	2.5	1.65	6.5	12	28	180	1.0	0.1	
		φ300	1,800	2.5	1.72	5.0	15	28	200	1.0	0.1	
		φ350	1,800	6.0	1.72	5.0	15	28	200	1.0	0.1	
		φ400	1,800	12.0	1.71	5.0	14	32	200	1.0	0.1	
		φ450·φ500	1,800-2,400	22.0	1.70	5.0	13	32	200	0.9	0.1	
		φ550·φ600·φ700·φ750	2,400-2,700	22.0	1.69	5.0	12	32	200	0.9	0.1	
	NS-G	φ100·φ115·φ125	1,500	1.0	1.82	3.6	30	30	250	0.7	0.1	
φ150·φ175·φ200		1,500-1,800	2.5	1.82	3.6	30	30	250	0.7	0.1		
φ250·φ280·φ290·φ300		1,800	2.5	1.82	3.5	30	30	250	0.7	0.1		
φ350·φ375		1,800	2.5	1.82	3.5	28	30	250	0.7	0.1		



Heating elements, boats, trays, sliding plates, electrolytic electrodes, molds, jigs, various architectural materials



Heating elements, crucibles, rolls, dies, tubes, electrolytic electrodes, bearings, stationary boards, furnace materials



*Values given for the coefficient of thermal expansion were measured in a temperature range between 200 and 400°C. The above values are representative characteristics and are not guaranteed values.