

GRAPHITE ELECTRODES PRODUCT LIST

PROPERTIES		UNIT	NOMINAL DIAMETER (mm)		
			HIGH POWER	SUPER HIGH POWER	ULTRA HIGH POWER
			75 ~ 550	350 ~ 500	350 ~ 800
RESISTIVITY	ELECTRODE	$\mu\Omega\text{m}$	5.8 ~ 7.0	5.5 ~ 6.5	4.0 ~ 5.5
	NIPPLE		3.5 ~ 5.0	3.2 ~ 4.5	2.8 ~ 4.0
BENDING STRENGTH	ELECTRODE	MPa	10.0 ~ 13.0	10.0 ~ 15.0	10.0 ~ 15.0
	NIPPLE		18.0 ~ 22.0	20.0 ~ 25.0	20.0 ~ 30.0
ELASTIC MODULUS	ELECTRODE	GPa	10.0 ~ 12.0	10.0 ~ 14.0	12.0 ~ 16.0
	NIPPLE		14.0 ~ 18.0	16.0 ~ 22.0	16.0 ~ 25.0
BULK DENSITY	ELECTRODE	g/cm ³	1.62 ~ 1.70	1.65 ~ 1.72	1.66 ~ 1.75
	NIPPLE		1.75 ~ 1.80	1.78 ~ 1.82	1.80 ~ 1.90
ASH CONTENT		%	0.3	0.2	0.2
C.T.E. 100 – 600°C	ELECTRODE	$\times 10^{-6}/^{\circ}\text{C}$	1.5 ~ 2.2	1.5 ~ 1.8	1.1 ~ 1.5
	NIPPLE		1.0 ~ 1.4	1.0 ~ 1.4	0.5 ~ 1.2

NOMINAL DIAMETER		STANDARD WEIGHT
INCH	mm	
3	75	7
4	100	16
5 1/8	130	33
6	150	45
7	175	59
8	200	76
9	225	101
10	250	120
12	300	155
14	350	185
16	400	230
18	450	253
20	500	305
22	550	406
24	600	334
26	650	395
28	700	505
30	725	585
32	750	665
		617
		717
		824
		873
		995
		1190
		1350
		1580
		1840
		1840
		1840