

Nominal Diameter

	Nominal Diameter	AC Arc Furnace		DC Arc Furnace
		350 ~ 450mm	500 ~ 700mm	700 ~ 800mm
		14" ~ 18"	20" ~ 28"	28" ~ 32"
Characteristic Item		UHP	UHP	UHP
Bulk Density	g/cm ³	1.65 ~ 1.79	1.65 ~ 1.76	1.67 ~ 1.77
Specific Resistance	μΩm	4.3 ~ 5.8	4.3 ~ 5.8	4.3 ~ 5.8
Young's Modulus	GPa	9.9 ~ 18.0	8.5 ~ 15.0	8.5 ~ 15.0
	kN/mm ²	9.9 ~ 18.0	8.5 ~ 15.0	8.5 ~ 15.0
	kgf/mm ²	990 ~ 1800	850 ~ 1500	850 ~ 1500
Bending Strength	MPa	10.0 ~ 18.0	8.5 ~ 15.0	9.0 ~ 15.0
	N/cm ²	1000 ~ 1800	850 ~ 1500	900 ~ 1500
	kgf/cm ²	100 ~ 180	85 ~ 150	90 ~ 150
Coefficient of Thermal Expansion	×10 /°C ⁻⁶	1.1 ~ 1.6	1.1 ~ 1.6	1.1 ~ 1.5
Real Density	g/cm ³	2.20 ~ 2.23	2.20 ~ 2.23	2.20 ~ 2.23
Total Porosity	%	19 ~ 26	19 ~ 26	19 ~ 26
Ash Content	%	Lower than 0.2	Lower than 0.2	Lower than 0.2

- Data above is for typical electrode characteristic. On top of this, we are producing multi-attribute electrodes.
- The temperature range for measuring the coefficient of thermal expansion is from chamber temperatures up to 500 degrees Celsius.