

ELECTRODES

ELECTRODES	ITEM	REGULAR POWER 75-450	HIGH POWER 300-450	ULTRA HIGH POWER
Resistivity, $\mu\Omega\text{m}$	Electrode	8.5 – 11.0	7.8	5.2 – 6.5
	Nipple	8.5 - 9.0	6.5	4.8 – 5.5
Bending Strength, MPa	Electrode	9.8 – 6.4	9.8	> 10
	Nipple	12.7 – 10.7	14	> 15
Elastic Modulus, Gpa	Electrode	9.3	12	< 14
	Nipple	13.7	14	< 15
Ash, %	Electrode	0.5	0.3	< 0.3
	Nipple	0.5	0.3	< 0.3
Bulk Density, g/cm^3	Electrode	1.58 – 1.52	1.62	> 1.72
	Nipple	1.63 – 1.68	1.7	> 1.75
CTE, $10^{-6}/^{\circ}\text{C}$	Electrode	2.9	2.2	< 1.4
	Nipple	2.7	2.1	< 1.4

The above data are typical properties. The data is subject to reasonable variations in manufacturing and should not be used for specification purposes.