

## GENERAL:

High Silicon Cast Iron (HSCI) Anodes are used in Cathodic Protection industry for effective impressed current Cathodic Protection, designed to protect underground and under water structures.

HSCI anodes are manufactured from high silicon cast iron alloy in solid or tubular form.

These anodes can be installed in deep ground bed, seawater or brackish water. HSCI anodes can be used with coke breeze to surround them completely.

## APPLICATIONS

- Deep ground-beds
- Horizontal ground-beds
- Distributed Anodes
- Tank Internal & Tank Bottom
- Seawater or brackish water
- With or without carbon backfill
- With or without canisters

## CHEMICAL COMPOSITIONS:

ASTM	Si%	Cr%	C%	Mn%	Cu%	Mo%	Fe %
A518 Grade 3	14.20-14.75	3.25-5.00	0.70-1.10	1.50 max	0.50 max	0.20 max	Balance

### SOLID TYPE

Diameter (Inches)	Length (Inches)	Weight (lbs)
1.5"	60"	12.7
2.0"	60"	22.7
2.5"	60"	33.5
3.0"	60"	49.0

### TUBULAR TYPE

Diameter (Inches)	Length (Inches)	Weight (lbs)
2.20	84	46.3
2.60	84	63.5
2.70	84	70.5
3.80	84	90.4

Dimensions and weights shown are normal with +/-5 percent. Non-standard sizes and weights of anode are available upon request.

## CONSUMPTION ANODE MATERIALS

Environment	Current Density (A/m <sup>2</sup> )	Consumption Rate (Kg/A. Year)
Coke Backfill	10-30	0.1
Fresh Water	10-30	0.15
Seawater	10-50	0.5
Soil	10-30	0.3

