

## HIGH SILICON IRON ANODE

### Anode Consumption

The consumption rate of High Silicon Chrome Cast Iron Anodes have been found to be between 0.2 & 1.2 lbs/A (year). For the Anodes of the same Chemistry & Microstructure, variance in Consumption is primarily due to the Chemical & Physical characteristics of the Anode Environment. The consumption rate does not appear to be significantly affected by Current Density (amperes Per unit area of Anode Surface). The use of Coke Breeze around the Anode in Soil Ground beds will tend to lower the consumption rate. A generally accepted design guideline for Anodes buried in Coke Breeze is 0.7 lbs. per ampere year

#### Stick Type

TYPE	WEIGHT	ANODE DISCHARGE (A)	DIAMETER	LENGTH	AREA
BTISI-260C	12 Kg. (26 lbs.)	1.5-2.0	1.5" (38mm)	60" (1520mm)	2ft <sup>2</sup> (0.19 M <sup>2</sup> )
BTISI-460C	20.9 Kg. (46 lbs.)	3.0-4.0	2.3" (58mm)	58" (2134mm)	4ft <sup>2</sup> (0.4 M <sup>2</sup> )
BTISI-600C	27 Kg. (60 lbs.)	2.0-2.7	2" (50mm)	60" (1520mm)	2.7ft <sup>2</sup> (0.25 M <sup>2</sup> )
BTISI-1100C	50 Kg. (110 lbs.)	3.0-6.0	3" (76mm)	60" (1520mm)	4ft <sup>2</sup> (0.37 M <sup>2</sup> )

#### Tubular Type

TYPE	WEIGHT	ANODE DISCHARGE (A)	DIAMETER	LENGTH	AREA
BTISI-260T	12 Kg. (26.4 lbs.)	1.8-2.2	1.5" (38mm)	60" (1520mm)	2ft <sup>2</sup> (0.19 M <sup>2</sup> )
BTISI-500T	23Kg. (50 lbs.)	3.2-3.8	2.2" (56mm)	84" (2130mm)	4.2ft <sup>2</sup> (0.39 M <sup>2</sup> )
BTISI-500T1	23Kg. (50 lbs.)	2.6-3.5	2.6" (66mm)	60" (1520mm)	3.5ft <sup>2</sup> (0.39 M <sup>2</sup> )
BTISI-700T	32 Kg. (70 lbs.)	3.7-5.0	2.6" (66mm)	84" (2130mm)	4.9ft <sup>2</sup> (0.46 M <sup>2</sup> )
BTISI-950T	43 Kg. (95 lbs.)	5.3-7.0	3.8" (97mm)	84" (2130mm)	7.0ft <sup>2</sup> (0.65 M <sup>2</sup> )
BTISI-1100T	50Kg. (110 lbs.)	3.8-5.0	3.0" (76mm)	60" (1520mm)	4.0ft <sup>2</sup> (0.36 M <sup>2</sup> )
BTISI-1220T	55Kg. (122 lbs.)	6.6-8.8	4.8" (122mm)	84" (2130mm)	8.8ft <sup>2</sup> (0.8 M <sup>2</sup> )
BTISI-1770T	80 Kg. (177 lbs.)	6.6-10.0	4.8" (122mm)	84" (2130mm)	8.8ft <sup>2</sup> (0.82 M <sup>2</sup> )

Nominal Discharge : 0.75 - 1.0 A/ft<sup>2</sup>

## IMPRESSED CURRENT ANODE



*High Silicon Iron Anode*