

HIGH SILICON CAST IRON ANODES

GENERAL

High silicon cast iron is most reliable protection materials available for cathodic protection of buried and submerged structures. Its application approved for vertical, horizontal and deep well ground beds as well as cathodic protection in sea and brackish water. Considering its low price, low consumption rate, good current output and high voltage limit, it is ne the best choice in selecting the anode material.

CHEMICAL COMPOSITION (IPS-M-TP-750/1)

Element	Composition (wt %)
Carbon	0.9 - 1.0
Manganese	1.5max.
Silicon	14.25 - 14.75
Chromium	4.3 - 5.00
Molybdenum	0.2max.
Copper	0.50max.
Iron	Remainder

TECHNICAL SPECIFICATION

Shape		Dimension (in x in)	Current Density	Max Output Current (A)	Consumption Rate (Kg/A.y)*	Net Weight (Kg)
Rod Type	<input type="checkbox"/>	2 60	10.764 (mA/m ²)	2.6	0.25 to 0.45	22.5
	<input type="checkbox"/>	3 60		3.8		48.5

* Consumption rate depends on electrolyte and environment. Max consumption rate is used for sea water and corrosive soils.

CABLE CONNECTION

Anode Type	Cable Size	Cable length	Cable Type **	Canistered Type Dimension
<input type="checkbox"/> Not Canistered	<input type="checkbox"/> 1 × 10 <input type="checkbox"/> 1 × 16	(m)	<input type="checkbox"/> PVC/PVC <input type="checkbox"/> XLPE/PVC	300 × 2100 (min) (mm x mm)
<input type="checkbox"/> Canistered	<input type="checkbox"/> 1 × 25 <input type="checkbox"/> 1 × 35		<input type="checkbox"/> HMWPE <input type="checkbox"/> KYNAR/HMWPE	

** The armored anode tailed cables (SWA or AWA) are available.