



HSCI Plate Anodes

YUXI developed a special high silicon cast iron electrode which can replace the sled anodes used for protecting the sub-sea steel structures.

The anode is made of plate shape and connected with conductive column fixed in the middle of plate. The invention adopts a plate-shaped structure which increase the discharge surface and change the current path to improve the uniformity of discharge and eliminate "Necking effect" that overcomes the problem that the rod anode is easy to break. It can reach the long working life specified in the design.

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APPLICATION

- ▶ Offshore optical fiber base station
- ▶ Marine LNG steel structure platform
- ▶ Sub-sea transmission pipeline



FEATURES

- ▶ High efficiency >85%
- ▶ Uniform current discharge
- ▶ Easy installation
- ▶ Quick and perfect cable connection and sealing
- ▶ Thick raised ribs enhance the strength

ELECTROCHEMICAL PROPERTIES

Element	ASTM A518/A518M Grade 1 (Si-Fe)	ASTM A518/A518M Grade 3 (Si-Fe-Cr)	BS 1591 1975
Soil/Fresh Water	2.0-5.0A/m ²	0.1-0.5kg/A-y	Avoid: Dry Soils High PH Value High Sulfate Consider during design: Brittle Chrome Alloy Chloride Environment
	0.2-0.5A/ft ²	0.2-1.2lbs/A-y	
Carbon Backfill	5.0-10A/m ²	0.05-0.3kg/A-y	
	0.5-1.0A/ft ²	0.1-0.7lbs/A-y	
Sea Water	10-50A/m ²	0.3-0.5kg/A-y	
	1.0-5.0A/ft ²	0.7-1.0lbs/A-y	

CHEMICAL COMPOSITION

Element	ASTM A518 / A518M		BS 1591 1975
	Grade 1 (Si-Fe)	Grade 3 (Si-Fe-Cr)	
Carbon	0.65~1.10%	0.70~1.10%	1.40% Max.
Manganese	1.50% Max.	1.50% Max.	0.50% Max.
Silicon	14.20~14.75%	14.20~14.75%	14.25~15.25%
Chromium	0.50% Max.	3.25~5.00%	0.50% Max.
Molybdenum	0.50% Max.	0.20% Max.	/
Copper	0.50% Max.	0.50% Max.	/
Sulphur	/	/	0.10% Max.
Phosphorus	/	/	0.25% Max.
Iron	Remainder	Remainder	Remainder

SPECIFICATIONS

Model	Anode Type	Size	Cable
YX-PSA-1	Plate Silicon Iron Anode	Dia. 2000x80mm or Customized	Marine Cable as Per Client Requests