

Canistered HSCI Anodes

High Silicon Cast Iron Anodes are available pre-packaged in galvanized mild steel canister or cotton bags filled with coke-backfill.

Prepacked HSCI Anode is designed for securing simple and quality field installation of cathodic protection project. Low consumption rate, easy and quick installation and low ground resistance are the main advantages of this product. The assembly process is finished within YUXI plant instead of in the field which effectively guarantees field installation quality of anode bed.

Canister anodes are perfect impressed current anode for shallow vertical and horizontal surface ground beds, as well as wet, marshy soil conditions where caving is likely to occur. The primary anode element is placed in a galvanized steel canister filled with coke backfill. The stable anode element passes current to this highly conductive calcined petroleum coke backfill.

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APPLICATION

- ▶ Deep well systems
- ▶ Shallow installations
- ▶ Grounding cell & off-shore structures.
- ▶ Long transmission pipeline
- ▶ Other severe environments such as brackish or saltwater



FEATURES

- ▶ High conductive
- ▶ Uniform coke filled with centralizer
- ▶ Excellent canister strength
- ▶ Easy field installation
- ▶ Perfect cable welding and sealing
- ▶ High performance anode confirm to ASTM A 518M Gr3

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

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	

SPECIFICATIONS

Model	Anode Type	Canister Type
YX-CSA-1.5	1.5" X48" (38x1524mm) HSCI Tubular Anode	200X2000mm Galvanised Steel Canister
YX-CSA-2	2" X60" (51x1524mm) HSCI Tubular Anode	200X2000mm Galvanised Steel Canister
YX-CSA-3	3" X60" (76x1524mm) HSCI Tubular Anode	200X2000mm Galvanised Steel Canister
YX-CTA-2	2.3" X84" (58x2134mm) HSCI Tubular Anode	200X3000mm Galvanised Steel Canister
YX-CTA-3	2.8" X84" (71x2134mm) HSCI Tubular Anode	200X3000mm Galvanised Steel Canister
YX-CTA-4	3.8" X84" (96x2134mm) HSCI Tubular Anode	200X3000mm Galvanised Steel Canister
YX-CTA5	4.9" X84" (124x2134mm) HSCI Tubular Anode	250X3000mm Galvanised Steel Canister