



# CANISTER HIGH SILICON CAST IRON ANODES

PRODUCT DATA SHEET

# CANISTER HIGH SILICON CAST IRON ANODES

This canister anode consists of a tubular or stick type high silicon cast iron anode firmly pre-packaged in a large spirally wound galvanized mild steel canister that is filled with calcined petroleum coke backfill.

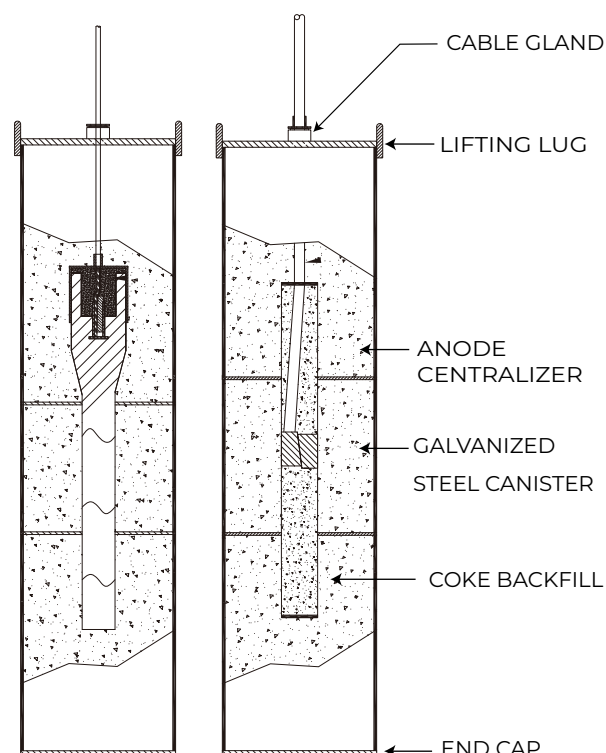
The canister housing is only intended to survive transportation and installation. Once installed, the exterior housing is part of the anode system and it is expected to be consumed quickly, leaving behind the anode and coke backfill.



## CHEMICAL COMPOSITION

### ■ ASTM A518/A518M Grade 1 (Si-Fe)

Element		Content (%)
Silicon	(Si)	14.20 ~ 14.75
Chromium	(Cr)	0.500 max.
Manganese	(Mn)	1.500 max.
Copper	(Cu)	0.500 max.
Molybdenum	(Mo)	0.500 max.
Carbon	(C)	0.650 ~ 1.100
Phosphorus	(P)	—
Sulphur	(S)	—
Iron	(Fe)	Remainder



### ■ ASTM A518 / A518M Grade 3 (Si-Fe-Cr)

Element		Content (%)
Silicon	(Si)	14.20 ~ 14.75
Chromium	(Cr)	3.250 ~ 5.000
Manganese	(Mn)	1.500 max.
Copper	(Cu)	0.500 max.
Molybdenum	(Mo)	0.200 max.
Carbon	(C)	0.700 ~ 1.100
Phosphorus	(P)	—
Sulphur	(S)	—
Iron	(Fe)	Remainder

### ■ BS 1591 1975

Element		Content (%)
Silicon	(Si)	14.25 ~ 15.25
Chromium	(Cr)	0.500 max.
Manganese	(Mn)	0.500 max.
Copper	(Cu)	—
Molybdenum	(Mo)	—
Carbon	(C)	1.400 max.
Phosphorus	(P)	0.250 max.
Sulphur	(S)	0.100 max.
Iron	(Fe)	Remainder



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## ELECTROCHEMICAL PROPERTIES

### ■ Soil

Technical Measurement	Performance
Current Density (A/m <sup>2</sup> )	2 ~ 5
Consumption Rate (kg/A.y)	0.1 ~ 0.5

### ■ Coke Breeze

Technical Measurement	Performance
Current Density (A/m <sup>2</sup> )	5 ~ 10
Consumption Rate (kg/A.y)	0.05 ~ 0.3

## PRACTICAL APPLICATION

Canister high silicon cast iron anode is normally used in area with high water table or where it is difficult to install loose coke backfill which is normally provided around anodes. Our canistered high silicon cast iron anode are perfect material for low resistivity soils, shallow vertical and horizontal surface ground beds, as well as wet, marshy soil conditions where caving is likely to occur.



## SPECIFICATIONS

### ■ Stick Type Anode

Item No.	Anode Size	Canister Size
YX-CSA-38	Φ38x1524mm (Φ1.5"x60")	Φ200x2000mm (Φ7.9"x78.7")
YX-CSA-51	Φ51x1524mm (Φ2.0"x60")	Φ200x2000mm (Φ7.9"x78.7")
YX-CSA-76	Φ76x1524mm (Φ3.0"x60")	Φ200x2000mm (Φ7.9"x78.7")

### ■ Tubular Type Anode

Item No.	Anode Size	Canister Size
YX-CTA-58	Φ58x2134mm (Φ2.3"x84")	Φ200x3000mm (Φ7.9"x118.1")
YX-CTA-71	Φ71x2134mm (Φ2.8"x84")	Φ200x3000mm (Φ7.9"x118.1")
YX-CTA-96	Φ96x2134mm (Φ3.8"x84")	Φ200x3000mm (Φ7.9"x118.1")
YX-CTA-124	Φ124x2134mm (Φ4.9"x84")	Φ250x3000mm (Φ9.8"x118.1")







## Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheep with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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