

High Silicon Cast Iron Anode

CORRTECH Silicon Iron Anodes are made by chill casting in metal mould. The anodes have more high density, more compact crystal structure and low consumption rate, thus have longer life. We produce this kind of anodes according to ASTM A518-86(grade 3) standard. They are made by Chill Cast technology, and have much higher performance and preferable quality than normal sand mould casting. We can provide all kinds of rod anodes and tubular anodes.



Alloy Composition

The alloy contains chromium which is better suited to situations where chlorine or other aggressive agents may be generated by electrolysis (e.g. in seawater or in deep well ground beds).

Analysis (ASTM A518-86 Grade 3)		
	Rod	Tubular
	Nominal	ASTM A518-86 Gr.3
Silicon	14.5%	14.20-14.75%
Chromium	4.5%	3.25-5.00%
Manganese	0.75%	1.5% max
Carbon	0.95%	0.7-1.10%
Molybdenum	-	0.20% max
Copper	-	0.5% max
Iron	Balance	Balance

High Silicon Cast Iron Rod Anode

General Specification

Type	Dimension(mm)	Weight(kg)
KTS-R03	Dia38 x 1200	10
KTS-R04	Dia38 x 1500	13
KTS-R06	Dia50 x 1200	16.5
KTS-R07	Dia50 x 1500	20.5
KTS-R09	Dia75 x 1200	40

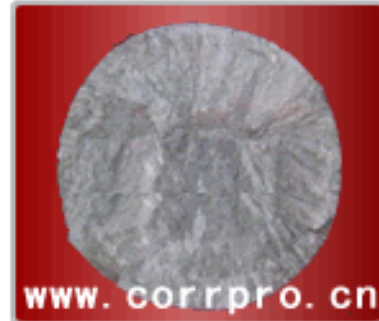
Email: corrtech2008@hotmail.com Tel: 86-0546-7773100

KTS-R10	Dia75 x 1500	48
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High Silicon Cast Iron Tubular Anode

Compare with the solid rod anode, tubular anodes can:

1. Minimize the resistance of anodes to electrolytes.
2. Increase the surface to weight ratio thus can reduce current density and distribute the produced gases over larger areas. It is very important for deep layer installations.
3. Improve current distribution, relaxes end electric discharge, while the cable joint is located in the center of the tubular.



General Specification

Type	Out Diameter	Wall thickness	Surface area	Length
KTS-T01	75 mm	10 mm	0.35 m²	1500mm
KTS-T01	100 mm	10 mm	0.47 m²	1500mm

Anode sizes shown in bold are standard sizes. Other shapes and sizes of anode available.

Canistered Cast Iron Anode

Canistered Cast Iron Anode consists of high silicon cast iron anode, coke, vent-pipe and outer steel pipe. The anode, $\Phi 50\text{mm} \times 1500$ or $\Phi 75\text{mm} \times 1500$ mm, is fixed in the center of steel pipe, annulus filled and tamped with carbonous backfill.



It has the advantage of low consumption and grounding resistance, saves a lot of time of installing the anode in the field and ensures the quality of the installation. In sea water or fresh water, we suggest using high silicon cast iron alloy containing of chromium or chromium molybdenum to resist the corrosion of chlorine.

CORRTECH Co.

[Http://www.cathodicprotection.cn](http://www.cathodicprotection.cn)

