



HIGH SILICON CAST IRON ANODE SLED



50 YEARS EXPERIENCE IN CATHODIC PROTECTION



JENNINGS ANODES

HIGH SILICON CAST IRON ANODE SLED

DATA SHEET

With six heavy high silicon cast iron tubular anodes mounted on a PVC pipe frame filled with reinforced concrete, this anode sled is designed to provide cathodic protection current to offshore structures such as oil platforms, piers, pilings, wharfs and similar structures which usually require relatively high levels of current in seawater. The anodes will be connected to a shore-based rectifier by means of two parallel insulated cables.



■ Centrifugal Casting Process

Our tubular HSCI anodes are centrifugal chill cast. The casting mold rotates at over 1000rpm producing a g-force that eliminates any trapped gas from silicon iron and throws any impurities to the inside bore of the anode where they do not hinder anode performance. Hence, the metal matrix is tight and dense, increasing the life of the anode.

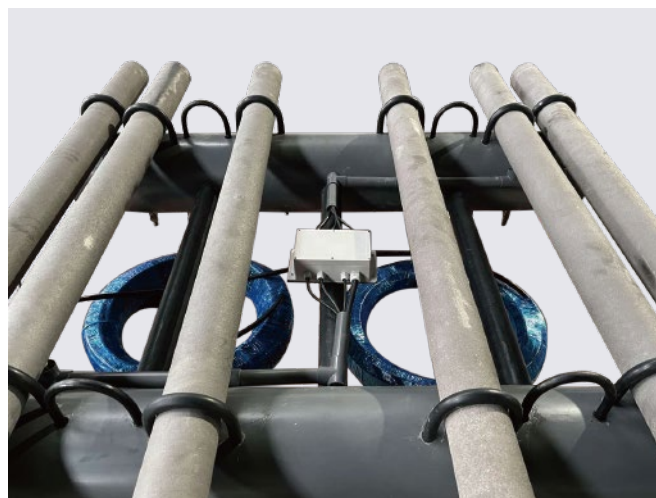
■ Low Connection Resistance

With zinc wedge-lock or bolt connectors at the mid-point of the anode, our center connection structure ensures a low resistivity — less than 0.001 ohms. The balanced spread of current throughout the overall length extends the anode lifespan and results in a reliable current discharge to the surrounding environment.

Moreover, the connection component is resin encapsulated using a high-quality Epoxy Resin to ensure the eradication of moisture ingress.

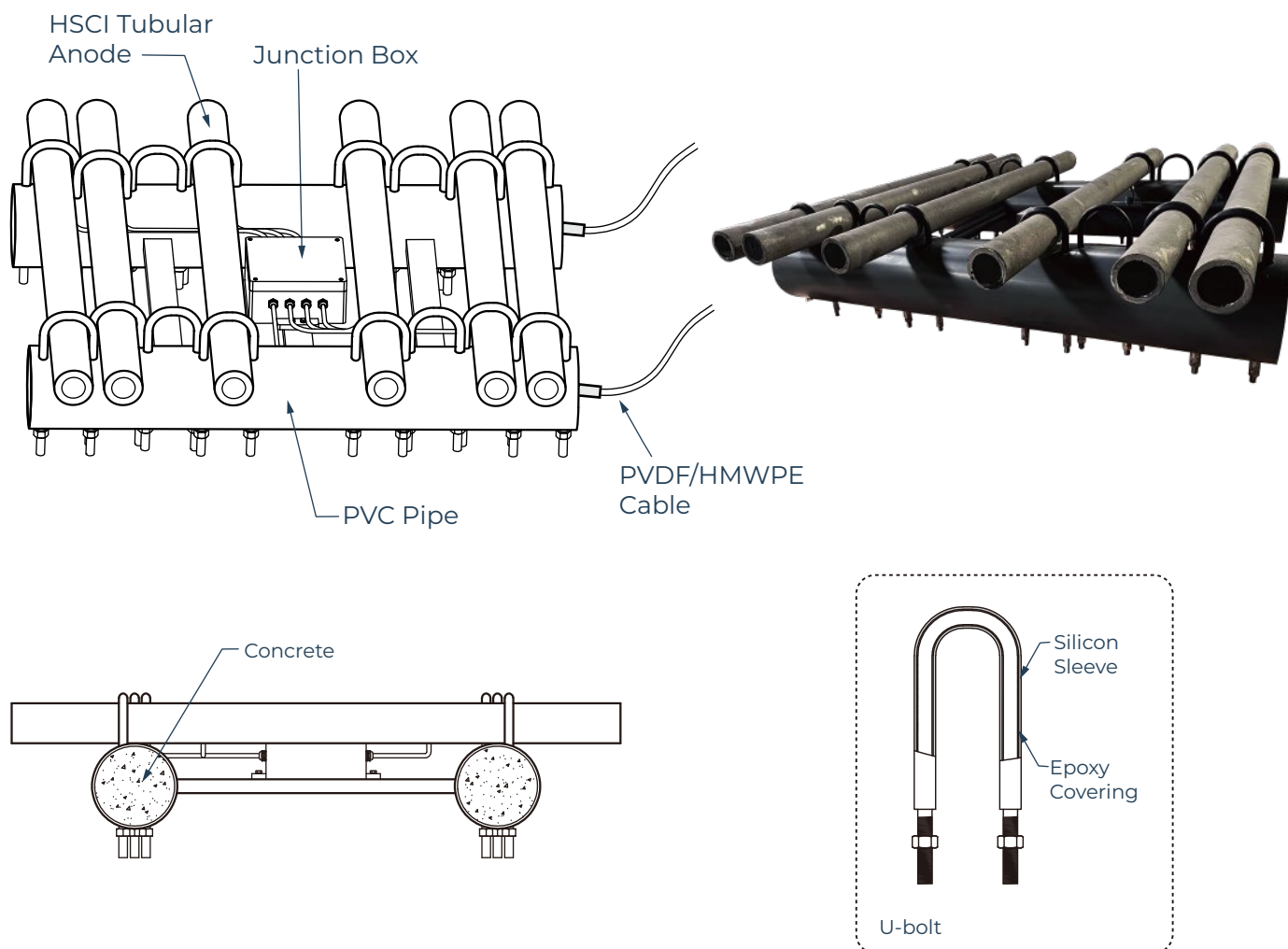
■ Low Consumption Rate

Coarse stippled surface texture enlarges the surface area to weight ratio, thus reducing the anode current density, giving 30% more amp-years than conventional stick anodes.



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CHEMICAL COMPOSITION

Element \ Standard	ASTM A518/A518M Grade 1	ASTM A518 / A518M Grade 3	BS 1591 1975
Silicon (Si)	14.2% ~ 14.75%	14.2% ~ 14.75%	14.25% ~ 15.25%
Chromium (Cr)	0.5% max.	3.25% ~ 5%	0.5% max.
Manganese (Mn)	1.5% max.	1.5% max.	0.5% max.
Copper (Cu)	0.5% max.	0.5% max.	—
Molybdenum (Mo)	0.5% max.	0.2% max.	—
Carbon (C)	0.65% ~ 1.1%	0.7% ~ 1.1%	1.4% max.
Phosphorus (P)	—	—	0.25% max.
Sulphur (S)	—	—	0.1% max.
Iron (Fe)	Remainder	Remainder	Remainder

HIGH SILICON CAST IRON CANISTER ANODES

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ELECTROCHEMICAL PROPERTIES

Technical Measurement	Performance
Current Density	1 ~ 5 A/ft ² (10 ~ 50 A/m ²)
Consumption Rate	0.75 ~ 1.5 lbs/A.y (0.34 ~ 0.68 kg/A.y)

SPECIFICATIONS

Item No.	JA-HSCI-SLED
Max. Current Capacity	≥2000 A.y
Anode Weight	1050.3 lbs (476.4 kg)
Utilization Efficiency	85%

Notes: All dimensions and weights are nominal. The parameter provided is subject to variation in material compositions and Jennings Anodes foundry tolerance.

TESTING DETAILS

We employ ISO 9001:2015 quality management system and rigorous internal testing standards to ensure the optimum lifespan and performance of our anodes. Each anode is labelled with a unique serial number for quality tracking.

Technical Measurement	Chemical Composition	Electrochemical Performance	Physical Properties
Testing Standard	ASTM E350	ASTM E186/E446	Foundry ITP
Testing Content	Chemical Analysis	Current Efficiency Connection Resistance	Dimension & Weight Surface Finish Cable Connection Epoxy Resin Sealing
Equipment	Optical Emission Spectrometer Labspark 750A / Thermoscientific Niton XL2-980	Electrochemical Analyzer EPI 200	Calibrated Digital Measuring Devices

*Third party testing is conducted by customer's special request at extra charge.



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