

SILICON IRON SOLID ANODES

Ferroline Anodes, produced by Corrpro Companies Europe Limited, are designed for the effective protection of steel structures and pipelines from corrosion by the impressed current method. They are manufactured from high silicon cast iron alloy, one of the most important anode materials used by the corrosion engineer to protect steel in a variety of situations.

Specification

Composition

Typical analyses of ferroline are

	Ferroline N	Ferroline C
Silicon	14.25-15.25%	14.25-15.25%
Manganese	1.0% max	1.0% max
Carbon	1.0% max	1.4% max
Chromium	-	4.0-5.0%
Iron	Balance	Balance

Other compositions available to specification

These specifications conform with ASTM A518-80 & BS 1591 Grade Si 14

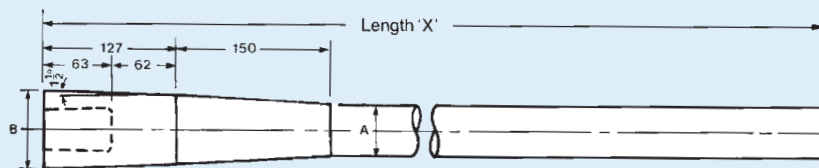
Typical Ferroline Consumption Rates

Environment	Current density	Consumption Rate
	Amps/m ²	kg/amp year
Fresh Water	10	0.11
Sea Water	15	0.31
	50	0.47
Sea Water 200F	10	0.41
Buried Sea Water/sand	8	0.68
Carbonaceous backfill	15	0.10

Anode Types

Ferroline anodes are cast in several shapes and sizes to meet a variety of requirements. The drawings following show details of the range available. Other special head configuration, shapes and weight anodes can also be made to order.

Single Headed Anode



Anode No.	Anode Dia 'A' mm (inch)	Head Dia 'B' mm (inch)	Overall Length 'X' mm (inch)	Weight kg (lb)
W75S (3")	76 (3)	100 (4)	910 (36)	32 (71)
	76 (3)	100 (4)	1220 (48)	33 (73)
	76 (3)	100 (4)	1525 (60)	50 (110)
W65S (2 1/2")	65 (2 1/2)	90 (3 1/2)	910 (36)	24 (53)
	65 (2 1/2)	90 (3 1/2)	1220 (48)	31 (68)
	65 (2 1/2)	90 (3 1/2)	1525 (60)	38 (84)
W50S (2")	50 (2)	74 (3)	910 (36)	15 (33)
	50 (2)	74 (3)	1225 (48)	19 (42)
	50 (2)	74 (3)	1525 (60)	23 (51)
W40S (1 1/2")	39 (1 1/2)	64 (2 1/2)	910 (36)	10 (22)
	39 (1 1/2)	64 (2 1/2)	1220 (48)	13 (29)
	37 (1 1/2)	64 (2 1/2)	1525 (60)	15 (33)
W25S(1")	30 (1)	40 (1 1/2)	300 (12)	2 (4)

Weights and Dimensions are nominal



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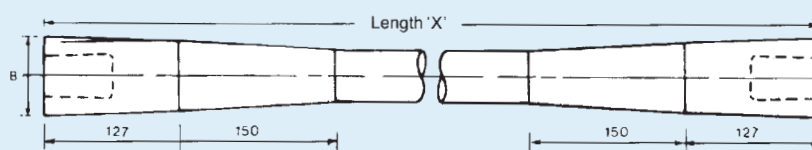
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SILICON IRON SOLID ANODES

Double Headed Anode



Specification

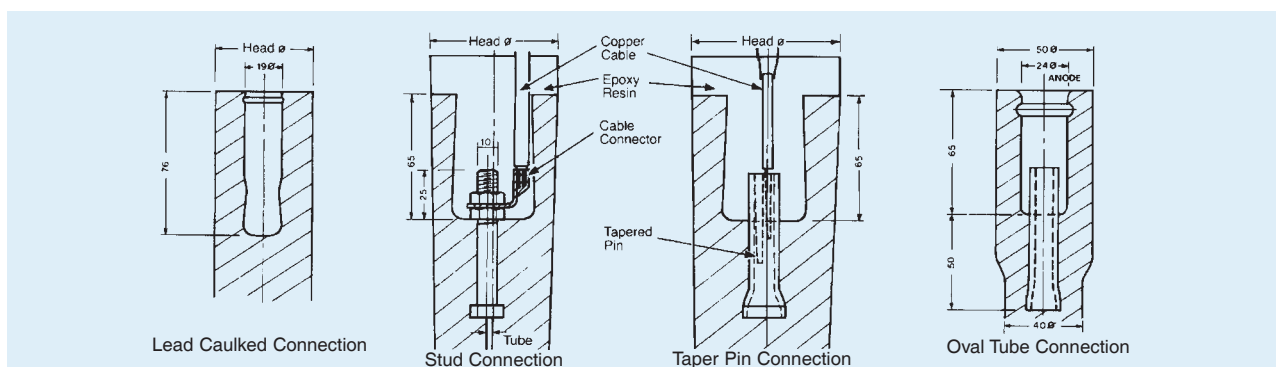
Corrpro Companies Europe Limited supply a range of tubular anodes in both Ferroline N and Ferroline C grades. Tubular anodes have a centre cable connection which in certain applications can prevent end effects and result in more uniform consumption.

D51 Anodes

The Durichlor 51 Anode company (Durichlor™) is wholly owned by Corrpro Companies and the full Durichlor range of silicon iron anodes (WCD, WD, WM, WE, WQ & WSM) are available on request.

Anode Cable Connection

There is a choice of four types of cable connection available with the Lead Caulk as standard. Whenever necessary, special requirements can be catered for. The standard formats are detailed below.



Anode Caps

3M anode caps may be factory fitted to cabled anodes. They are designed to counteract 'end effect' when single end anode connections are specified. The caps have protective polymeric lining capable of withstanding corrosive environmental conditions including chlorine and sulphate attack. They are manufactured from cross-linked polyethylene and shrink fitted over the end of the anode. The dielectric strength of the end caps is 10kV per mm.

Cables

Ferroline Anodes can also be supplied complete with cables connected to the casting and resin encapsulated. Various sizes and types of cable can be supplied, standard sizes in 6,10,16 x 25mm sq with cable to suit all environments. Standard cable insulation is XLPE/PVC. Cable technical data sheets are available on request.

Cannistered

Ferroline Anodes can also be supplied in galvanised steel canisters c/w backfill. Details available upon request.

Quality Assurance

Corrpro Companies Europe Limited operates a quality assurance management system conforming to ISO 9001:BS EN 1994. Full quality procedures applied to the manufacture of silicon iron anodes and other products result in full materials traceability and ensure reliability and consistency of anode performance. All anodes conform to the requirements of BS 1591 Grade Si 14 & ASTM A518-80 and can be supplied with materials test certificates required. Alternative requirements can be fulfilled on request.



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