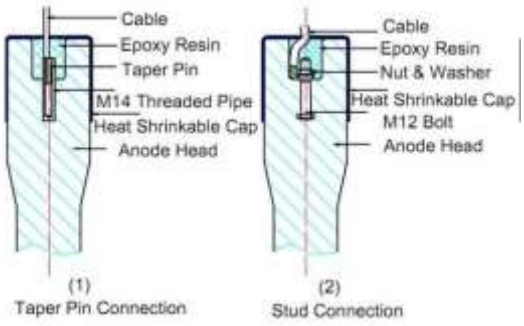
IRON-SILICON ANODES

cannister

Silicon Iron (SIF) anodes have been one of the most widely used types in impressed current cathodic protection systems since the 1950s. Thanks to their high silicon content (14 to 16%), the surface of these anodes is rapidly and continuously coated with an extremely thin film of silicon oxides and hydroxides, which gives them extraordinary corrosion resistance and extremely low specific consumption.

Our ferrosilicon anodes are produced in solid bar form, packed in cannisters with coke, ready for use. Shapes and dimensions can be customized according to customer specifications.
Our standard anodes are produced with 3 meters of 1x16mm2 double-insulated XLPE/PVC cable, connected via studs and terminals. Other cable types (including HEPR/PVC and HMWPE/Halar), lengths, cross-sections, and connection systems are available upon request.



Ferro-silicon anodes are used with excellent results in a variety of environments, from soil to deep anodic beds, from freshwater to saltwater, where they demonstrate exceptional reliability. Ferro-silicon anodes also demonstrate excellent resistance even in acidic environments (low pH).
Our ferro-silicon anodes are manufactured in accordance with
ASTM A518 M (grade 3) and BS 1591 standards, in both chromium-free and chromium-containing versions.
The addition of this alloying element improves the anode's corrosion resistance, especially in alkaline and high-chloride environments, and is generally accepted as a standard.

Chemical-physical characteristics:

Specific consumption (kg/A*y)		Utilization factor (%)	
min.	**max.**	**min.**	**max.**
0.1	0.45	65	85

Standard		**ASTM A518M Gr.3**
Component	**Min %**	**Max %**
Silicon	14.20	14.75
Chromium	0.70	1.10
Carbon		1.50
Manganese		0.20
Molybdenum		0.50
Copper		
Phosphorus		
Sulfur Iron		
iron		Remaining to the 100%

	Diameter	**Lenght cannister**	**Lenght anodes**
Codice	**mm**	**mm**	**mm.**
CA-1	80	1000	800
CA-2	100	1500	1200
CA-3	150	2000	1800