

ANOTEC Stick Anodes

Solid Chill Cast Anodes for Impressed Current Cathodic Protection



Product Description

- **Composition** ASTM A518 Grade 3

Silicon	14.20 - 14.75%	Manganese	1.50% max
Chromium	3.25 - 5.00%	Copper	0.50% max
Carbon	0.70 - 1.10%	Molybdenum	0.20% max

- **"Chill Cast" in Metal Molds**

- Assures consistent weight, greater density, less flake graphite grain boundary, and lower chemical segregation than Sand Cast Anodes.
- The ANOTEC Chill Cast structure is similar to "Spin Cast" Tubular Anodes.

Special Features

- **More than Twice as Strong**

Independent laboratory tests confirm that Anotec Anodes withstand drop impact tests to more than twice the height of Sand Cast Anodes.

- **Quality Control**

ISO 9002 Quality Control assures: chemistry (by spectrometer), impact strength and production lot traceability.

- **Performance**

Accelerated Corrosion Tests confirm that Anotec Chill Cast anodes perform significantly better (up to 19%) than Sand Cast anodes in chloride and sulphate environments. Test reports available on request.

- **Spherical Tip**

Prevents hang-up when lowering into deep wells.

Anotec Solid Chill Cast Anodes

Grain Structure Makes a Difference

A typical ANOTEC Anode Cross Section

A dense skin of minute columnar grains and a dense core of equiaxial grains.

Occasionally, very fine interdendritic porosity at center. Predominantly spheroidal shaped graphite. Similar to the structure of vacuum refined High Silicon Iron.



Stronger, Longer Lasting

A typical Cross Section of a Sand Cast Anode

Skin of non-porous equiaxial grains. Remaining section relatively porous from interdendritic shrinkage and porosity. Predominantly flake graphite with larger boundary areas than equivalent spheroidal graphite.



Anotec Type	Nominal Dimensions Inches (mm)	Nominal Weight Lb (Kg)	Nominal Area Sq. Ft. (M ²)	Shipping Information		
				Anodes per crate	Gross Weight Lbs	Kgs
SHA	2" dia. (51mm) 60" (1520mm)	43 (20 kg)	2.6 (.24)	50	2280	1034
EHA	2" dia. (76mm) 2" dia. (51mm) 60" (1520mm)	44 (20 kg)	2.6 (.24)	50	2355	1068
EHM	2" dia. (76mm) 2" dia. (51mm) 3" dia. (76mm) 60" (1520mm)	60 (27 kg)	2.7 (.25)	45	2830	1284
EHK	2" dia. (51mm) 1 1/2" dia. (38mm) 60" (1520mm)	26 (12 kg)	2.0 (.19)	70	1950	885
EHR	4" dia. (102mm) 3" dia. (76mm) 60" (1520mm)	110 (50 kg)	4.0 (.37)	24	2770	1256

Crate dimensions, nominal: 32W x 22H x 62L inches = 25 Ft³ • (81W x 56H x 157L cm • .71 M³)

Connection Options

STYLE 1 (PIN)



Pin & Socket Type (Shown with epoxy cap)

Anotec Anodes are supplied with matching tapered steel pins. When installed as instructed, the pin connection exceeds the tensile strength of the copper lead wire. Cable to anode resistance: less an 0.0030 ohms.

Cable Size	Connection Exceeds
8 AWG	400lb (180Kg)
4 AWG	1300lb (590 Kg)

Caulked Lead Connection (shown with potting Compound and Heat Shrink PE Cap)

Anotec bell-bottomed cavity is shaped for optimum security of lead, potting compound and strain relief grommet. Like the Pin & Socket Connection, Anotec's Leaded Connection is suitable for Epoxy or Heat Shrink Caps to seal out moisture.

STYLE 2 (LEAD)

