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PRODUCT'S DESCRIPTION

tecnoflex™ as a product used in cathodic protection is ideal as a replacement of conventional anodes used in impressed current installations for tank bottoms, buried tanks or pipelines protection. **tecnoflex™** is a n anode made with a high purity titanium conductor and an MMO catalyst that lasts for over 50 years.



ADVANTAGES

Regarding other anodes, **tecnoflex™** offers:

- Easy handling and installation.
- Economical.
- Up to 50 years duration.
- Custom anode life time and current output.

MATERIAL SPECIFICATION

- Substrate: ASTM B348 Grade I / II
- Catalyst: Mixed Metal Oxide (MMO)
- Cable: HMWPE.
- MMO wire to cable connection: high pressure crimping, from 5 to 10 meters each.

ANODE TYPICAL SPECIFICATION

SPECIFICATIONS	
<i>Substrate</i>	Titanium ASTM B348 Grade I/II
<i>MMO Catalyst</i>	Ir-Ta
<i>Backfill</i>	Petroleum Calcinated Coke
<i>Sleeve material</i>	Porous non-woven fabric
<i>Sleeve diameter (mm)</i>	38
<i>Length per riel (m)</i>	150

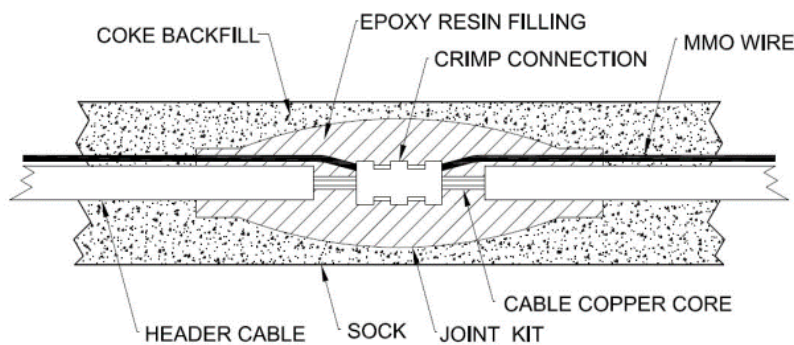
LIFE TIME

<i>Life time (years)</i>	<i>Current output by available wire diameters</i>		
	<i>1.0 mm</i>	<i>1.5 mm</i>	<i>3.0 mm</i>
20	67 mA/m	89 mA/m	195 mA/m
30	45 mA/m	65 mA/m	130 mA/m
50	28 mA/m	41 mA/m	78 mA/m

TYPICAL INSTALLATION

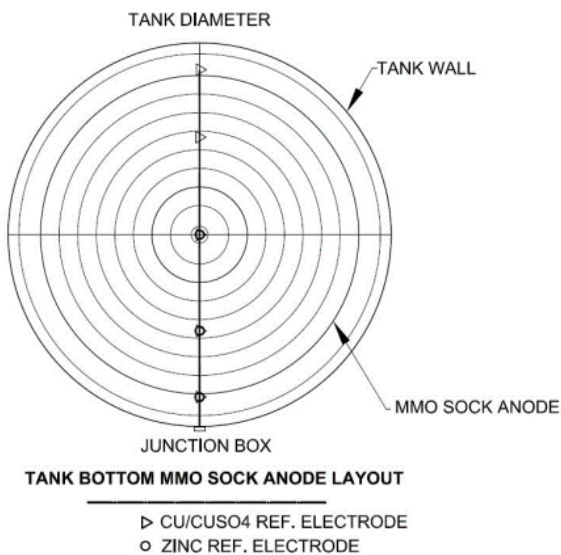
The anode header cable is typically an HMWPE # 8 or # 10 AWG cable, conforming to ASTM D1248, Type 3, Class C, Category 5, which is the ideal cable for cathodic protection above ground.

The MMO conductor is connected to the cable by high-pressure crimping and sealed in an epoxy resin splice kit to ensure low electrical resistance and symmetrical current distribution over a continuous length of at least 150 meters. The high quality calcined petroleum coke backfill will improve the working environment of the MMO conductor as well as the current density.



PROVISION FOR TANK FUND PROTECTION

The anode is buried in sand, approximately 40 cm below the bottom of the tank, in circles from the center of the tank to surround the tank wall. An appropriate space must be maintained between the sleeved anodes to provide the desired current distribution. After disposing the anodes at the bottom of the tank, the anode must be connected to the power cable using a splice kit, to ensure a perfect electrical connection. Finally, connect the power cable to the outdoor junction box



NOTAS:

- Dimensions and weight may vary slightly, weight may change by $\pm 2\%$.
- We have anodes in different configurations according to customer needs.
- We manufacture anodes in any required current output, riel length, and diameter, please indicate your preferred configuration.

The anodes we supply come with a manufacturer's quality certificate. TECNOLOGIA TOTAL guarantees that the anodes will meet the specified requirements.

For any technical questions regarding which anode you should use for your application, let us support you by contacting our technical sales department.

We have NACE certified cathodic protection professionals ready to support you.

WARRANTY AND LIMITATION OF LIABILITY

TECNOLOGIA TOTAL will not be in any case responsible for damages of any nature that could be derived from an inadequate use of the product. Before using the product, the user must determine if the product is suitable for its intended use, taking all risks and liability that could be derived from its use.

If it's proved that a product is faulty due to manufacturing or its material at the time of sale, or that it does not fulfill during its warranty period the indicated properties in this technical sheet, the only responsibility of TECNOLOGIA TOTAL will consist of replacing the buyer with the quantity of product that is found to be defective. TECNOLOGIA TOTAL does not take any responsibility for any additional cost such as manufacturing cost, withdrawal or re-application of the products. If TECNOLOGIA TOTAL offers a warranty to their clients, express or implicit, or a compensation that differs from the established in this section, this stipulation can not be altered unless a signed agreement by the parties.

