

# Impressed Current Anode (ICCP)



## Betelguard MMO Titanium Tubular Anode for Underground Storage Tanks (UST)



ICCP ANODE

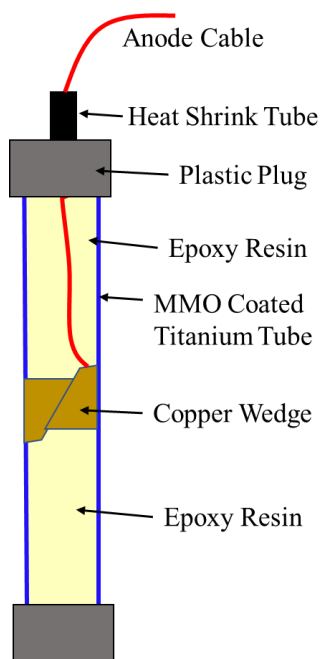


**Betelguard MMO Titanium Tubular Anode** is one of the most popular anodes for ICCP due to the cost-effectiveness, long life, and high degree of protected anode-cable connection.

In general, the individual anode for a underground storage tank requires small current output; however, several anodes are required for the CP current distribution around the tanks.

### Specification

Anode Length:	500 mm
Anode Diameter:	16 mm
Substrate:	ASTM B-265, Grade 1 Titanium
Anode Current Rating:	Max. 2 Amp
Cable-Anode Connection Resistance:	Less than 1 micro ohm
Design Anode Life:	Min. 30 Years
Canister Size:	75 mm dia. x 700 mm long
Cable Type:	XLPE/PVC or HMWPE (6 mm <sup>2</sup> or No. 8 AWG)



MMO Tubular Anode

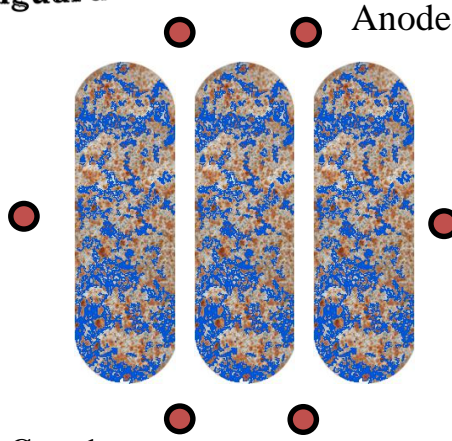


Transformer Rectifiers for UST

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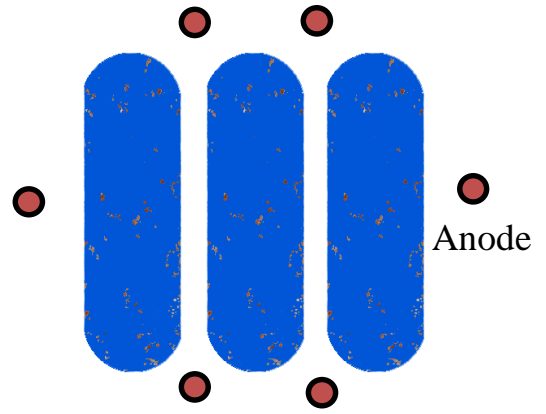


## Typical Anode Positions (Plan)



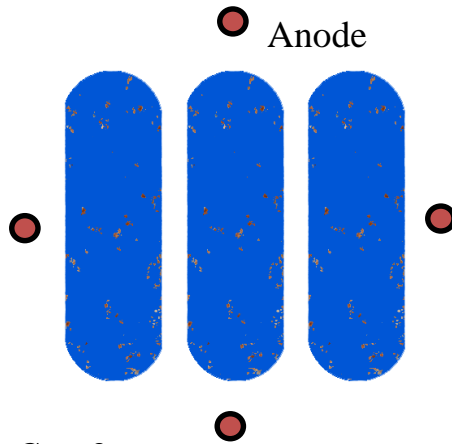
**Case 1**

Heavily Corroding Tanks:  
Poor Coating Condition



**Case 2**

Tanks which are electrically shorted  
to the rebar in the concrete paving



**Case 3**

Corroding Tanks with Mild  
Coating Damages, No short  
circuit with the concrete

### Cautions:

CP current distribution is significantly varies based on:

- Tank coating condition
- Electrical short circuit with the rebar in concrete
- Relative positions of tanks

## Typical Anode Location

