



**MANUFACTURERS OF MMO AND  
PLATINIZED TITANIUM ELECTRODES**

## TELPRO DISC ANODES DATA SHEET

APPLICATIONS
<b>MARINE STRUCTURES</b>
<b>PIPELINE INTERNALS</b>
<b>CONDENSERS &amp; WATER BOXES</b>
<b>WATER INTAKES</b>

Titanium Electrode Products Companies, "TELPRO," are manufacturers of mixed metal oxide anodes for Cathodic protection.

**TELPRO Disc Anodes** are manufactured using titanium, which meets ASTM B265 Grade 1 or 2 standards, which has been coated with **TELPRO** Mixed Metal Oxide coating.

**TELPRO MMO** coating consists of  $\text{IrO}_2/\text{Ta}_2\text{O}_5$  and is suitable for use in all cathodic protection applications. Because mixed metal oxide anodes have an extremely low consumption rate, the titanium substrate remains constant throughout the design life of the anode.

Based upon accelerated life testing, conducted by an independent laboratory, **TELPRO MMO** coating has been proven to be equivalent or superior to other mixed metal oxide coatings which are currently being used; a copy of this test report is available upon request.

Strict quality control procedures are followed throughout the entire coating process, to guarantee proper coating adhesion and loading. Also, **TELPRO** products are tested using an X-Ray Fluorescence Spectrometer, to ensure production of the highest quality product, which is fundamental in every step of the manufacturing process.

**TELPRO Disc Anodes** are available as standard in diameters of 6" (150mm) & 12" (300mm) as well as other sizes which are all available upon request.

PERFORMANCE DATA AND RATINGS		
Environment	Maximum Current Density	Lifetime
CARBONACEOUS BACKFILL	4.6A/ft <sup>2</sup> (50A/m <sup>2</sup> )	20 years
CALCINED PETROLEUM COKE BACKFILL	9.3A/ft <sup>2</sup> (100A/m <sup>2</sup> )	20 years
FRESHWATER	9.3A/ft <sup>2</sup> (100A/m <sup>2</sup> )	20 years
BRACKISH WATER	9.3-27.8A/ft <sup>2</sup> (100-300A/m <sup>2</sup> )	20 years
SEAWATER	55.8A/ft <sup>2</sup> (600A/m <sup>2</sup> )	20 years
<b>Lifetimes stated are nominal, we can supply Amps / life different to stated standards on request.</b>		

**USA OFFICE : PHONE 281 498 4727 FAX 281 498 4728 TOLL FREE 877 483 5776**

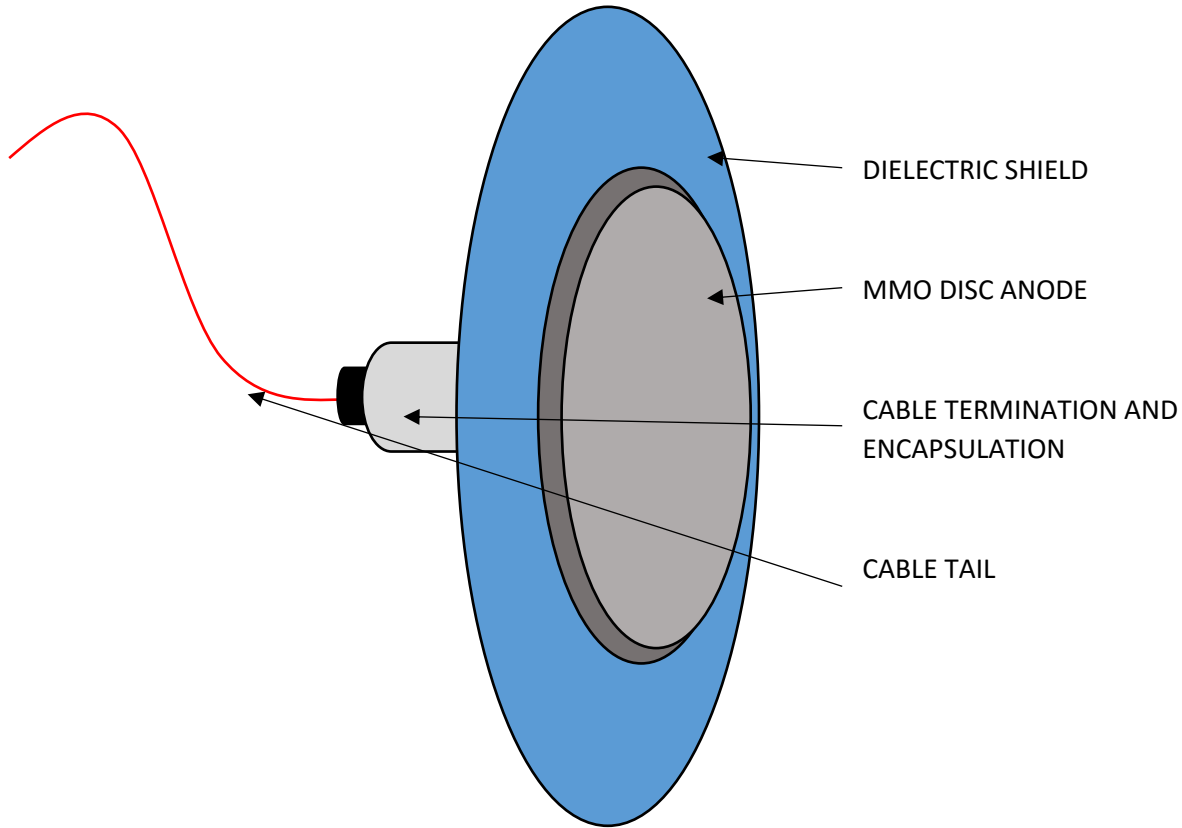
**UK OFFICE : PHONE 44 1453 845 718 FAX 44 1453 845 719**

**WEB : [WWW.TELPROCOMPANIES.COM](http://WWW.TELPROCOMPANIES.COM)**

**EMAIL : [MASH@TELPROCOMPANIES.COM](mailto:MASH@TELPROCOMPANIES.COM) / [CATHY@TELPROCOMPANIES.COM](mailto:CATHY@TELPROCOMPANIES.COM)**

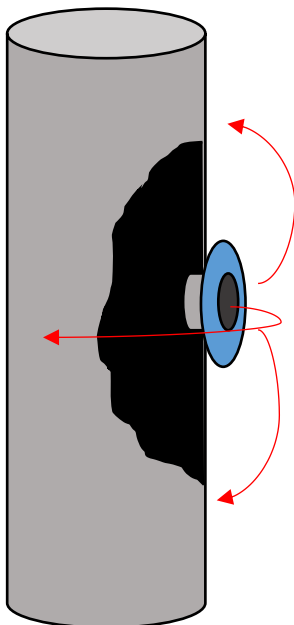
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LAYOUT OF A TYPICAL DISC ANODE ASSEMBLY.



### TYPICAL APPLICATIONS FOR DISC ANODES

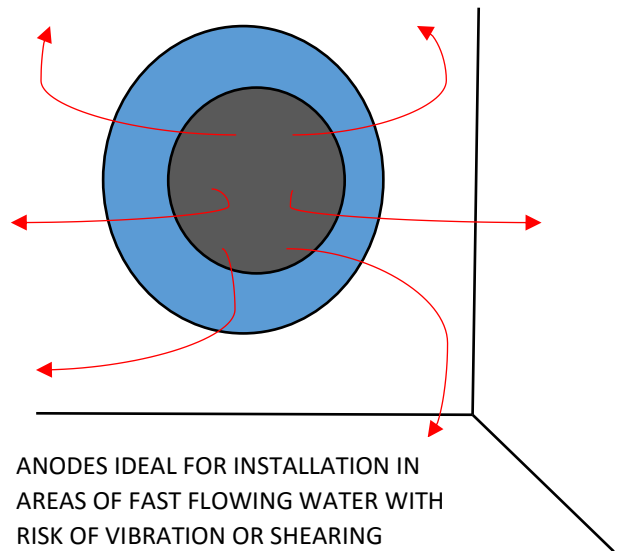
#### JETTY / OFFSHORE STRUCTURE



DISC ANODES CAN BE INSTALLED WITH A LOW PROFILE, PREVENTING DAMAGE FROM PASSING SHIPS / CRAFT.

EXTRA COATING MAY BE APPLIED TO THE STRUCTURE TO PREVENT LOCAL OVERPROTECTION

#### THRU WALL ANODE FOR CONDENSERS / WATER BOXES.



ANODES IDEAL FOR INSTALLATION IN AREAS OF FAST FLOWING WATER WITH RISK OF VIBRATION OR SHEARING DAMAGE.