

CerAnode™

Technologies International

New Low Cost E-MMO Econo Tubular Anode Singles

Deep Anode Beds / Shallow Beds / Horizontal Anode Beds
Coke - Fresh - Brackish - Sea Water

Off-the-Shelf Availability

Models

CPR-E32x1500

CPR-E25x1500



- EMMO™ (Enhanced Mixed Metal Oxide) Arc-Plasma Spray Processed Catalytic Coating developed by CerAnode in the Mid 80's.
- Additional Catalyst Concentration at Anode Ends Compensates Anode End Effect Wear.
- Anode Material is Tested at 10,000 A/m² to Verify Anode Life and Catalytic Integrity.
- High Anode Surface Area =
Low Current Density
Low Gas Generation Density
Low Operating Temperature
- Anode Weight Approx. 0.6 kg + Cable.
(3.5 kg weighted version is optional)

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Thermal Spray &
Metrology Lab



Reg. No. 04-0579

CerAnode EMMO Econo Tubular Anode Singles

Model CPR-E25x1500
25mm X 1500mm (1"X60")

5 Amps in Coke/Fresh Water
13 Amps in Seawater
Design Life - 20 Years

Model CPR-E32x1500
32mm X 1500mm (1.25"X60")

8 Amps in Coke/Fresh Water
20 Amps in Seawater
Design Life - 20 Years

Custom Sizes Available

The Econo-Tubular-Anode is a high quality but economical tubular anode ideal for applications where a SINGLE - one anode per cable - is preferred. It is designed for the demands of deep anode beds, shallow beds and the earth's natural waters. It is specially designed end connection allows for quick custom cable lengths. Light weight construction provides ease of handling and economy of shipping.

This anode is manufactured using the same special arc-plasma spray processing developed by CerAnode in the mid 80's. The connection is of the highest quality electrically and environmentally having a copper-to-titanium resistance of <100 micro ohms with an environmental MultiSeal™ encapsulation fully resistant to nascent chlorine gas. It also features a FluoroShield™ cable guard. The anode's catalytic EMMO coating is tightly sintered to its titanium substrate resulting in a truly unique surface architecture providing an abrasion resistant surface protecting it from injury during installation. It is "one-of-a-kind" among the many MMO technologies available in the marketplace today. It features iridium as its primary catalyst which the Chemistry and Physics Handbook classifies as the most inert material known to man. The proprietary nature of the catalyst mixture and deposition process results in a very special ceramic anode product.

Specifications

<u>Parameter</u>	<u>Unit or Description</u>
Anode Catalyst	CC-TIR-EMMO (Iridium - Tantalum - Titanium)
Deposition Method	Arc-Plasma Spray Processing
Surface Architecture	Hardened Ceramic Exhibiting Abrasion Resistance
Substrate Material	ASTM B-338 Commercially Pure Titanium
Connection Resistance	<100 micro ohms
Tube Wall Thickness	0.9 mm
Apparent Dissolution Rate	1-10 mg/A-Yr -- electrolyte dependent
Anode Weight	0.6kg + cable
Weighted Version (optional)	3.5kg

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