

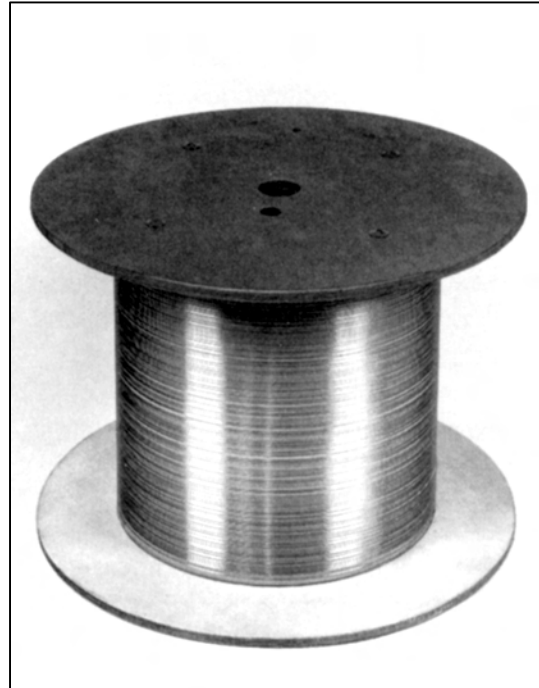
Platinized Niobium

Wire Anodes

Protection For Water Storage Tanks

Waterworks facilities are constantly under attack from corrosion. To combat this process in water and wastewater storage tanks, Corrpro offers a platinized niobium wire anode. The anode is constructed of a copper core, which is surrounded by a niobium substrate. Metallurgically bonded to the substrate is a platinum coating. By using these three metals in combination, an anode with superior protection characteristics is produced. Corrpro's wire anode is highly conductive and can be operated at a maximum current density of 100 amps/ft². The anode is also very lightweight, flexible, and strong. Because the niobium substrate is resistant to corrosion, the anode remains dimensionally stable over its operating life, and consumption of the platinum coating is extremely low (40 to 80 milligrams/amp-yr.).

Corrpro wire anodes can be used in numerous geometries. In water storage tanks and wastewater clarifiers, the anode is often suspended by rope in configurations which follow the circumference of the structure. This design permits even current distribution. It also produces a cathodic protection system that is not susceptible to damage from icing. Because the anode is a continuous wire, failures due to poor wire connections are eliminated.



Typical Applications

Corrpro platinized niobium wire anodes are designed for use in all types of aqueous storage and process equipment. The anode has proven to operate effectively in fresh, brackish and saltwater, and is not adversely affected by high chloride concentrations. Because of its low consumption rate, the anode may be employed in a cathodic protection system to achieve a design life of 20 years or more.

CHEMICAL COMPOSITION

Element	Content % of Diameter
Copper	79.5
Niobium	19.5
Platinum	Less than 1%



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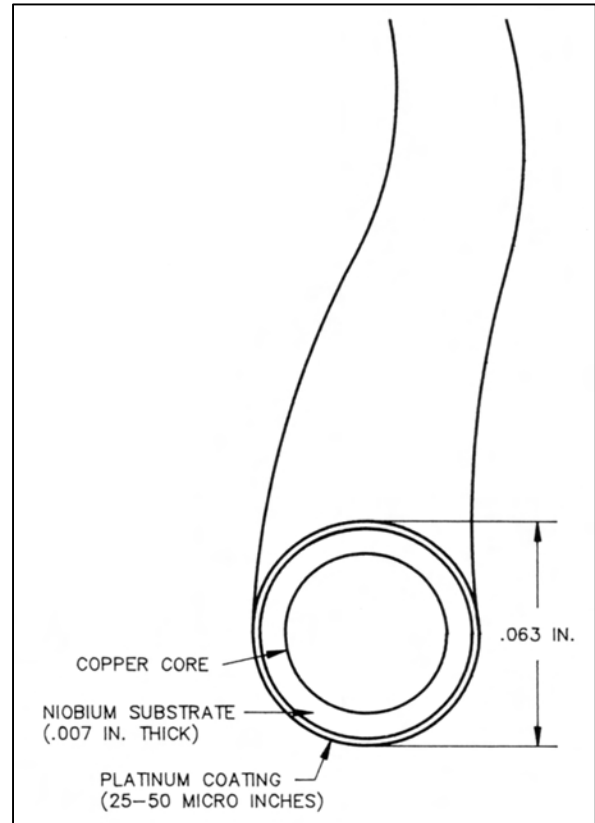
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Platinized Niobium Wire Anodes

Ordering Procedure

The platinized wire anode is available in different wire diameters and with different platinum coating thicknesses. To order the required anode for your structure, indicate that you need a platinized niobium wire anode, and specify the lineal feet desired and wire type. An example is provided to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Anode Material	<i>Platinized Niobium Wire</i>
Lineal Feet	<i>200</i>
Anode Type	<i>PW 25</i>



ANODE TYPE	Standard Dimensions					
	NOMINAL DIMENSIONS					
	WIRE Ø		NIOBIUM THICKNESS	PLATINIUM THICKNESS		
	in.	(mm)	in.	(mm)	µ-in.	(µ-m)
<i>PW 25</i>	<i>.063</i>	<i>(1.6)</i>	<i>.007</i>	<i>(0.18)</i>	<i>25</i>	<i>(0.635)</i>
PW 50	.063	(1.6)	.007	(0.18)	50	(1.275)



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