LIDA® Tubular Anodes

LIDA® tubular anodes are titanium tubes with a mixed metal oxide coating, that have an extremely low consumption rate, measured in terms of milligrams per ampere-year. As a result of this low consumption rate, the tubular dimensions remain nearly constant during the life of the anode providing a consistently low resistance anode.

Whether operating in soil, freshwater, mud, or seawater, LIDA[®] mixed metal oxide coatings demonstrate very high chemical stability even in environments with very low pH values. Unlike other impressed current anodes, the LIDA[®] coatings are not affected by the generation of chlorine.

Benefits:

- Dramatically reduces cable costs
- Reduces handling and installation costs
- Lower cost per amp-hr
- Guaranteed electrical contact and moisture seal integrity
- Consistently low resistance anode

Applications:

- Groundbeds: Deep; Shallow; Vertical; Horizontal; Open Hole
- Marine: Sea Water; Brackish Water; Mud
- Fresh Water

Dimension:

Anodes	Diameter		Length		Weight		Surface Area	
	cm	inches	cm	inches	kg	lbs	m ²	ft²
1.6 x 100	1.6	0.63	100	39.4	0.21	0.47	0.050	0.78
2.5 x 50	2.5	1.00	50	19.7	0.18	0.40	0.039	0.42
2.5 x 100	2.5	1.00	100	39.4	0.35	0.77	0.079	0.84
3.1 x 76	3.1	1.22	76	30	0.32	0.70	0.076	0.82
3.1 x 122	3.1	1.22	122	48	0.50	1.10	0.121	1.3

LIDA[®] tubular 2.5 x 100 XXL are designed for extended life operation.



Features:

- Multi-anode conductor
- Lightweight / durable
- High current output
- Patented crimp connections
- Dimensionally stable

LIDA[®] Tubular Anode Life in Fresh Water







LIDA® "anode string" is comprised of electrical cable threaded through one or more tubular anodes. Electrical connection between the anode and cable is via a patented, mechanical crimping process. The crimp connection is likewise utilized to seal the anode around the cable at both ends. Since only a single cable lead protrudes from the hole, the junction box is eliminated when using a LIDA® string-reducing the cost of materials and labor.

LIDA[®] Tubular Anode Life in Brackish Water

String assemblies are also available in a looped configuration with two tails, or as multiple, staggered strings for system redundancy and maximum current distribution throughout the groundbed.

De Nora recommends the use of quality, conductive, carbonaceous backfill, a vent pipe and Ventralizers[™], suitable cable, good design practices, and understanding.







LIDA® Crimp - LIDA® anodes are connected with a special crimping process which improves the life of the tubular anode system and avoid cracks, lose adhension and moisture penetration. On the surface, the crimp on the ends and in the middle appears the same. Yet they serve different purposes and are made differently. The center crimp makes electrical contact with the cable while the end crimps form a moisture resistant seal. Electrical connection between the tubular anode and the power cable wire is achieved by sliding the tube onto the cable and crimping a section of the tube at mid-length around a stripped portion of the cable.

Both ends of the tubular anode are sealed over the insulated cable by applying 50 tons of hydraulic pressure. This crimping process eliminates the need for mastic or resin sealants.

Reliability - LIDA[®] tubular anode, are the most durable and reliable product in the industry for your cathodic protection needs. LIDA[®] tubular anode strings are backed by a five-year, no hassle warranty.

Ease Of Installation - The LIDA[®] anode-cable assemblies are easy to handle, transport and install because of their unique flexibility. It makes your on-site job easier as well.

ELECTROCHEMISTRY AT YOUR SERVICE"

SPECIALTIES & NEW APPLICATIONS

© Copyright 2017 Industrie De Nora S.p.A. - All rights reserved.

De Nora, ON circle, our research - your future, electrochemistry at your service, Stargard® (and any other trademark name) are trademarks or registered trademarks of Industrie De Nora S.p.A. or other companies of the group in Europe and/or other countries. Other trademarks used here in are the registered trademarks of their respective owners.

The information contained herein is offered for use by technically qualified personnel at their discretion and risk without warranty of any kind.



LIDA[®] Tubular Anode Life in Mud

LIDA® Tubular Anode Life in Sand

