



MITIGATION ELECTRODE

PRODUCT DATA SHEET











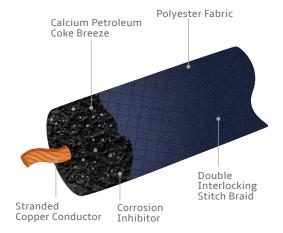
AC



AC Mitigation Electrode

Pipeline corrosion, caused by induced AC current, is attributed to high voltage AC power lines in close proximity to a pipeline system. The corrosion can be extremely aggressive, far exceeding the normal corrosion rate caused by corrosive soils. One of the most popular mitigation solutions is a linear grounding system that is installed in parallel to the pipeline.

Compared with bare copper and zinc ribbon, this long-line "cable" is a superior grounding material that provides an effective electrical path to remove or discharge AC current from the pipeline to the ground. It is comprised of a bare stranded copper conductor encased in low resistance backfill with corrosion inhibitors, and then wrapped in a synthetic sock.



Quality Copper Conductor

Our power cable delivers the required current over considerable distance without incurring substantial longitudinal voltage drop.

Evenly Backfill Filling

High performance calcined petroleum coke breeze is tightly pre-packaged and evenly distributed all around the copper conductor, serving as the active matrix in which the electrochemical reactions take place.

• Carbon Content: 98.5% Min.

Ash: 0.6%Moisture: 0.05%Volatiles: Nil(950°C)

• Resistivity: 0.1 Ω .cm [per G.L.C.-C-12A, 10 bar (145psi)

@23°C (73°F)

Reel Packing

Our AC mitigation ribbon can be packed on wooden or steel reel as required. It is normally installed right from the factory provided reel into the trench for easy transportation.





Acid-resistant Braid Fabric Jacket

Our AC mitigation ribbon is prepackaged with porous, non-woven synthetic sleeve. This tough sleeve is sewn using a poly two or four-thread double interlocking stitch, which prevents the seam from separating during installation, or when stored in high temperature conditions.

• Bursting Strength: 500 N [per ISO 3303]

• Abrasion Resistance: 100 Cycles to Failure [per ASTM D-4157]

• Fluid Resistance: Pass [6-month Immersion Test]

• Chlorine Resistance: Pass [6-month Immersion Test]

• UV Resistance: 55% Tear Strength Loss [per ASTM G-53: 8 hrs @ 60°C (140°F), 4 hrs condensation @ 50°C (122°F)]





AC Mitigation Electrode

PRACTICAL APPLICATION

Our AC mitigation electrode is commonly applied to pipeline grounding systems or structure that are subject to AC interference. It is normally installed parallel to the pipeline through trenching, plowing or directional drilling.

- Prevent voltage spikes during fault conditions
- Reduce AC-induced corrosion
- Maintain AC step and touch potentials to protect personnel from shock hazards

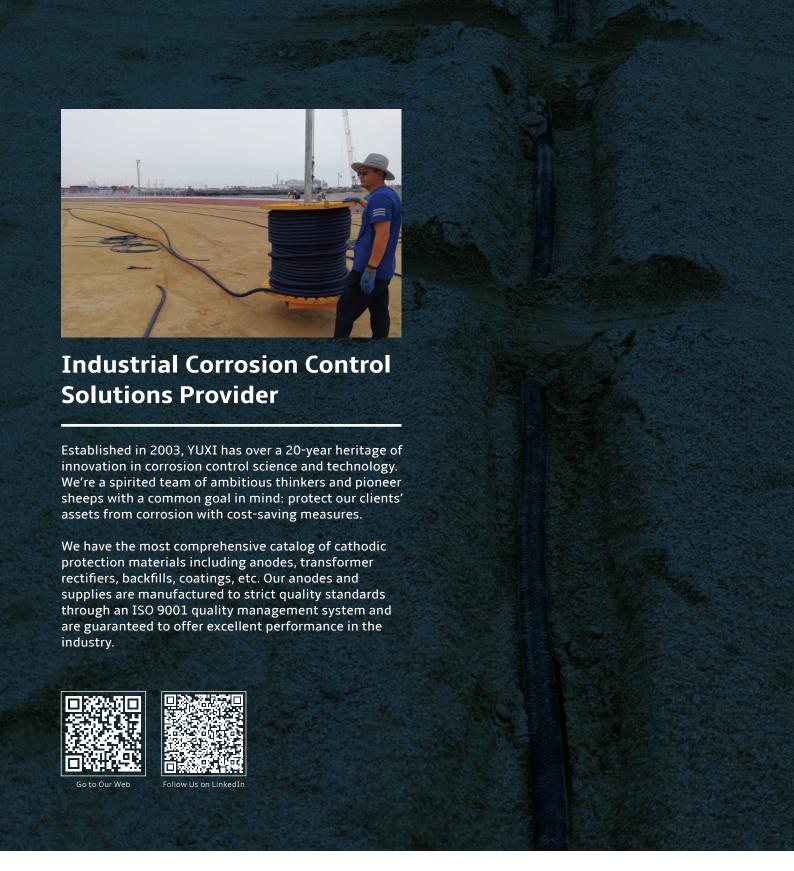




SPECIFICATIONS

Item No.	Cable Conductor	Sock Diameter	Reel Length	Weight	Lifetime
YX-CU-AWG1-S	#1/0 AWG	Φ 38mm (Φ 1.5")	152m (500 ft.)	1.8 kg/m (1.3 lbs/ft.)	25 yrs.
YX-CU-AWG1-M	#1/0 AWG	Φ 38mm (Φ 1.5")	305m (1000 ft.)	1.8 kg/m (1.3 lbs/ft.)	25 yrs.
YX-CU-AWG1-L	#1/0 AWG	Φ 38mm (Φ 1.5")	457m (1500 ft.)	1.8 kg/m (1.3 lbs/ft.)	25 yrs.
YX-CU-AWG2-S	#2 AWG	Φ 38mm (Φ 1.5")	152m (500 ft.)	1.6 kg/m (1.1 lbs/ft.)	25 yrs.
YX-CU-AWG2-M	#2 AWG	Φ 38mm (Φ 1.5")	305m (1000 ft.)	1.6 kg/m (1.1 lbs/ft.)	25 yrs.
YX-CU-AWG2-L	#2 AWG	Φ 38mm (Φ 1.5")	457m (1500 ft.)	1.6 kg/m (1.1 lbs/ft.)	25 yrs.
YX-CU-AWG6-S	#6 AWG	Φ 38mm (Φ 1.5")	152m (500 ft.)	1.5 kg/m (1.0 lbs/ft.)	25 yrs.
YX-CU-AWG6-M	#6 AWG	Φ 38mm (Φ 1.5")	305m (1000 ft.)	1.5 kg/m (1.0 lbs/ft.)	25 yrs.
YX-CU-AWG6-L	#6 AWG	Φ 38mm (Φ 1.5")	457m (1500 ft.)	1.5 kg/m (1.0 lbs/ft.)	25 yrs.







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