

ProAct™

PRODUCT DESCRIPTION

The conductive polymer flexible anode is a cable-shaped impressed-current anode consisting of a conductive, stable modified polymer anode body and a copper cable core conductor. It offers good flexibility, strong resistance to mechanical damage, and excellent chemical stability.

The conductive polymer flexible anode is suitable for a wide range of soil environments and is particularly well suited for high-resistivity or variable-resistivity conditions.

The anode consists of a conductive polymer layer, copper wire, coke breeze layer, acid- and alkali-resistant wrapped fabric, and abrasion-resistant braid.

PRODUCT FEATURES

Backfill Filling Technology

- Petroleum coke backfill is filled using patented filling equipment combined with mobile vibration technology to ensure dense and uniform backfill.

Installation & Reliability

- Flexible length design simplifies installation. The anode can be cut to the required length on site, enabling fast and safe construction.



CONDUCTIVE POLYMER FLEXIBLE ANODE



PRODUCT PERFORMANCE

Environmental Adaptability

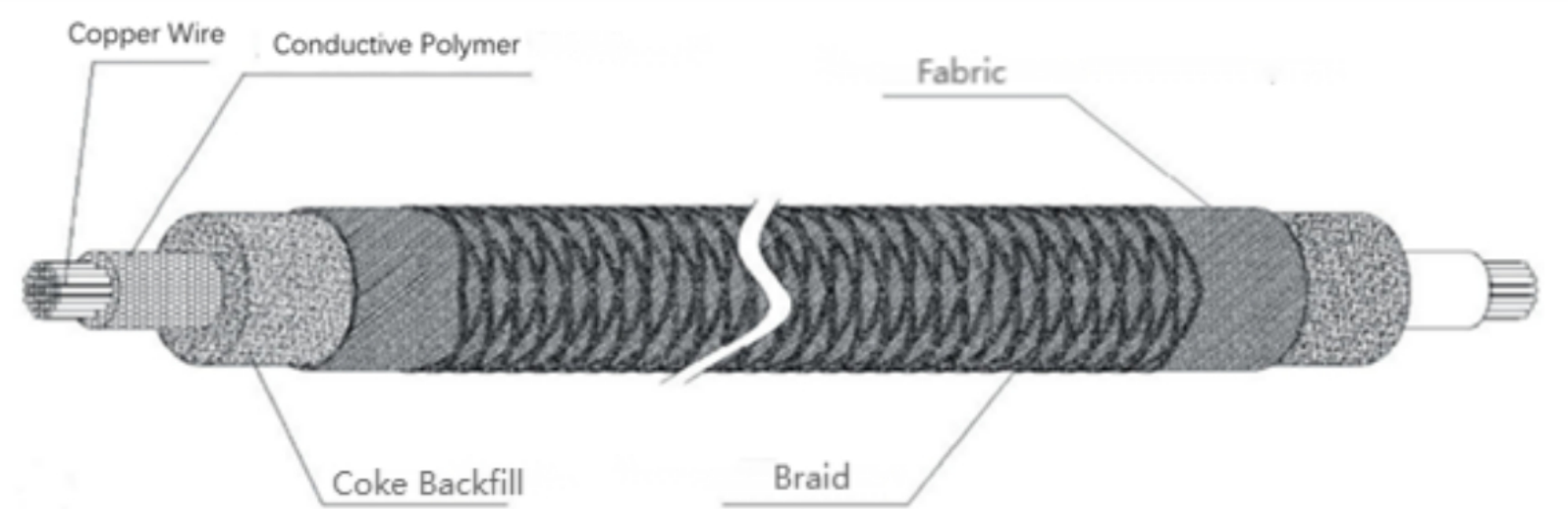
- The flexible anode structure allows adaptation to complex installation conditions and irregular anode layouts.

Current Output Stability

- Stable current output supports reliable cathodic protection performance during long-term operation.

Service Life

- Long service life under designed operating conditions helps reduce maintenance and replacement requirements.



Reference	Title
ASTM B193-25	STANDARD TEST METHOD FOR RESISTIVITY OF ELECTRICAL CONDUCTOR MATERIALS
NACE RP0285-2021	STANDARD RECOMMENDED PRACTICE CORROSION CONTROL OF UNDERGROUND STORAGE TANK SYSTEMS BY CATHODIC PROTECTION
EN 12954:2019	GENERAL PRINCIPLES OF CATHODIC PROTECTION OF BURIED OR IMMERSED ONSHORE METALLIC STRUCTURES - SYSTEM DESIGN AND APPLICATION.
EN 13636-2004	CATHODIC PROTECTION OF BURIED METALLIC TANKS AND RELATED PIPING - SYSTEM DESIGN AND APPLICATION

PRODUCT PARAMETERS

Description	Technical Data
Maximum Output Current	52 mA/m
Minimum Installation and Storage Temperature	-18°C
Minimum Bending Radius	500 mm
Lifespan	≥ 25 years
Applications	Tanks; Oil and Gas Facilities

MODELS AND
SPECIFICATIONS

Model

AT-AF-01

Cable Size

6 AWG

Conductive polymer diameter

13 mm

Nominal diameter

38 mm

Weight

1.4~1.6 Kg/m

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