

Anocel™

T-1500 and T-2000 series tubular anode for cathodic E-coat applications



The Anocel™ is a robust and energy saving anode offering a revolutionary cap design. Anocel also features a clean anolyte feed down through the center of the anode that prevents clogging and improves flow through the entire anolyte cell. A welded membrane design and heavy-duty protective mesh cover adds durability.

The Parker flushable Anocel maintains optimum pH by extracting acid from the paint bath as it serves as a counter electrode with the least electrical resistance.

The Anocel ion-selective membrane is available in 1.5" and 2" diameter standard lengths to provide maximum flexibility for part size and tank depth.



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Benefits

- Sealed closed top design can be used for vertical or horizontal mount
- Spiral welded construction of membrane
- Submersible floor and roof electrodes
- Rotatable anodes
- Open, closed and center feed top options

Applications

- E-coat paint systems
- Automotive Industry
 - Appliance Industry
 - Heavy Equipment



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Materials of construction

Heavy duty PVC body; rigid polypropylene mesh membrane protector.

Electrode

The anodes and cathodes are supplied with 316L stainless steel.

TYPE	ANODE DIAMETER	EFFECTIVE AREA
T-1500	(1 7/8")	0.49 ft ² /ft [0.15 m ² /m]
T-2000	(2 3/8")	0.62 ft ² /ft [0.19 m ² /m]

Membrane

- Pre-expanded resin based ion exchange membrane
- Welded construction
- Available for cathodic & anodic paints

Dimensions

Maximum shell outer diameter
T-1500 3.6" (91 mm)
T-2000 4.8" (122 mm)

Standard lengths available in a range of sizes to 12' (366 cm).

Accessories

- Flow meter with valve
- Supply and return tubing
- Mounting clamps
- Appropriate inlet/outlet connections
i.e., hose inlet/outlet fittings
- Electrical connection
- Quick disconnect electrical connection

Membrane construction

The resin-based ion selective membrane has been chosen to provide the lowest electrical resistance. Parker Hannifin Corporation's proprietary welded tubular construction creates a self-supporting structure that eliminates membrane distortion. Placing the membrane between these frames (and not wrapping the membrane around the inner frame), reduces resistance and blockage of the electrical paths. The benefits of this are even wear and longer life for the electrode and more economic cell operation.

Other cells available on the market use the inner frame to wrap or roll the dry membrane in a circular or tubular shape. Another layer of material is wrapped around the dry membrane to keep it from swelling when it becomes wet. These additional support layers for the ions to pass through increase the resistivity of the cell, thereby increasing electrical costs. Additionally, this method of fabrication distorts the expanded membrane into the holes of the inner and outer frame. This distortion causes uneven electrolyte circulation and the creation of hot spots of higher conductivity in the electrolyte solution. These hot spots concentrate the current draw of the device into an uneven pattern and erode the electrode at an accelerated rate. The result is shorter electrode life and higher maintenance costs.

Optional configurations

- Submersible floor and overhead electrodes (see notes)
- Bare electrodes
- RuO and Iridium
- Outer Guard
- Splash Guard
- Schedule 40 Anode
- Seamless Anode

Notes:

- **Tubular overhead cells:** Same features as the side cell version; is available in custom sizes for any application. All units are supplied complete with mounting hardware and instructions.
- **Tubular floor cells:** Same features as the overhead cells except these units are completely submersible. Available in custom sizes and formats to fit any application. Available in both bare and membrane style and include appropriate mounting hardware.

Specifications subject to change without notification
For User Responsibility Statement, see www.parker.com/safety

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DS_EC_Anocel Rev. B



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