

ALUMINUM CONDENSER ANODE

ECOANODE's bolted aluminum anodes are engineered to deliver targeted and efficient cathodic protection within the confined spaces of heat exchangers, condensers, and closed-loop cooling water systems. Designed for secure mechanical fastening, they ensure optimal electrochemical performance and long-term service. To accommodate the diverse and often complex internal layouts of such equipment, the anodes are precision-cast in a range of industry-standard shapes, including round, square, and rectangular designs.

A key feature is the optional application of a durable plastisol coating. This coating acts as an intelligent current barrier, strategically insulating portions of the anode to prevent the wasteful dissipation of protective current into the bulk water flow. Manufactured from a high-quality aluminum alloy, these anodes provide reliable corrosion prevention, helping to sustain heat transfer efficiency, prevent costly downtime, and ensure the operational integrity of critical industrial and marine cooling systems.

CHEMICAL COMPOSITION

Element Content	GALVALUM III	DNV-RP-B401-2011	GS EP COR 201
Zinc (Zn)	2% ~ 6%	2.5% ~ 5.75%	4.75% ~ 5.75%
Indium (In)	0.01% ~ 0.02%	0.015% ~ 0.04%	0.015% ~ 0.02%
Silicon (Si)	0.08% ~ 0.2%	0.12% max.	0.06% ~ 0.12%
Iron (Fe)	0.13% max.	0.09% max.	0.12% max.
Copper (Cu)	0.006% max.	0.003% max.	0.003% max.
Cadmium (Cd)	—	0.002% max.	0.002% max.
Other Impurities	0.1% max.	0.1% max.	0.1% max.
Aluminum (Al)	Remainder	Remainder	Remainder

ELECTROCHEMICAL PROPERTIES

Technical Measurement	Performance
Open Circuit Voltage (min.)	-1.10 Volts
Closed Circuit Voltage (min.)	-1.05 Volts
Current Capacity	2500 A.h/kg (1135 A.h/lbs)
Current Efficiency (min.)	90%
Consumption Rate	3.4 kg/Ay (7.6 lbs/Ay)



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