ECOANODE

TECHNICAL DATA SHEET

ALUMINUM ANODE SLED

Engineered for the efficient retrofitting of submerged infrastructure, ECOANODE's aluminum anode sled provides a highly practical and cost-effective solution for extending the corrosion protection of offshore platforms, pipelines, and subsea equipment. Its stable, low-center-of-gravity pyramid design is a key feature, allowing for simple, direct placement onto the seabed without the need for complex and expensive underwater welding, drilling, or structural modifications. This streamlined installation process significantly reduces labor time and associated risks.

Constructed from a high-performance aluminum alloy, the sled is designed to function as a robust sacrificial anode. It operates on the principle of cathodic protection, where it corrodes in place of the critical submerged metal structures it safeguards. This mechanism delivers reliable, long-lasting, and consistent galvanic protection, even in aggressive marine environments. The anode can ensure structural integrity and operational lifespan with minimal maintenance intervention.

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/A.y (7.6 lbs/A.y)



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