BASENNOVA

PRODUCT DATA SHEET

Blind Flanged Aluminum Anode

The Blind Flanged Aluminum Anode is a blind flange-mounted sacrificial anode cast from Al-Zn-In (Aluminum-Zinc-Indium) series aluminum alloy. Designed for internal cathodic protection of boilers, heat exchangers, seawater storage tanks, and salt-containing cooling water equipment, the anode protects carbon steel substrates from corrosion by preferentially consuming itself through electrochemical corrosion.

KEY FEATURES

1.Highest current output per unit weight
2.Lightweight, ideal for large marine structures
3.Moderate driving voltage, safer operation
4.Relatively controllable cost, suitable for mass production of large castings
5.Stable potential in seawater and brine

PRODUCT SPECIFICATIONS

Flange Size: 4-inch 150# or 300# flange
Anode Core:Carbon steel
Length: Customizable
Cable:1×4mm²,PVC,3meters length

APPLICATIONS

1.Boilers
2.Heat exchangers
3.Seawater storage tanks
4.Salt-containing cooling water equipment

Aluminum Anode

Chemical Composition(%)			
Executive Standard	**DNV RP B401**	**GB/T4948-2025:A21**	**BS EN12496-2013: A3**
Zn	2.5-5.75	4.0-7.0	4.75-5.75
In	0.015-0.040	0.020-0.050	0.016-0.020
Cd	≤0.002	/	≤0.002
Si	≤0.12	≤0.10	0.08-0.12
Cu	≤0.003	≤0.01	≤0.003
Fe	≤0.09	≤0.15	≤0.06
Mg	/	0.50-1.50	/
Ti	/	0.01-0.08	/
Other	≤0.10	/	/
Each Impurity	/	/	≤0.02
Total Impurity	/	/	≤0.05
Al	Remainder	Remainder	Remainder

Electrochemical Property			
Executive Standard	**DNV RP B401**	**GB/T4948-2002:A21**	**BS EN12496-2013:A3**
Open Potential(-V,vs SCE)	/	1.10-1.18	/
Closed Potential(-V,vs SCE)	≥1.05	1.05-1.12	1.05-1.12
Actual Capacitance(A·h/kg)	≥2500	≥2600	≥2500
Current Efficiency(%)	/	≥90	/